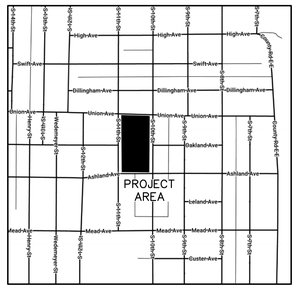
# PLAT OF SURVEY WITH TOPOGRAPHY

PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 15 NORTH, RANGE 23 EAST, IN THE CITY OF SHEBOYGAN, COUNTY OF SHEBOYGAN, STATE OF WISCONSIN.




VICINITY MAP

NOT TO SCALE

BEARINGS ARE REFERENCED TO WISCONSIN COUNTY SYSTEMS: SHEBOYGAN COUNTY, VERTICAL DATUM IS NAVD88.

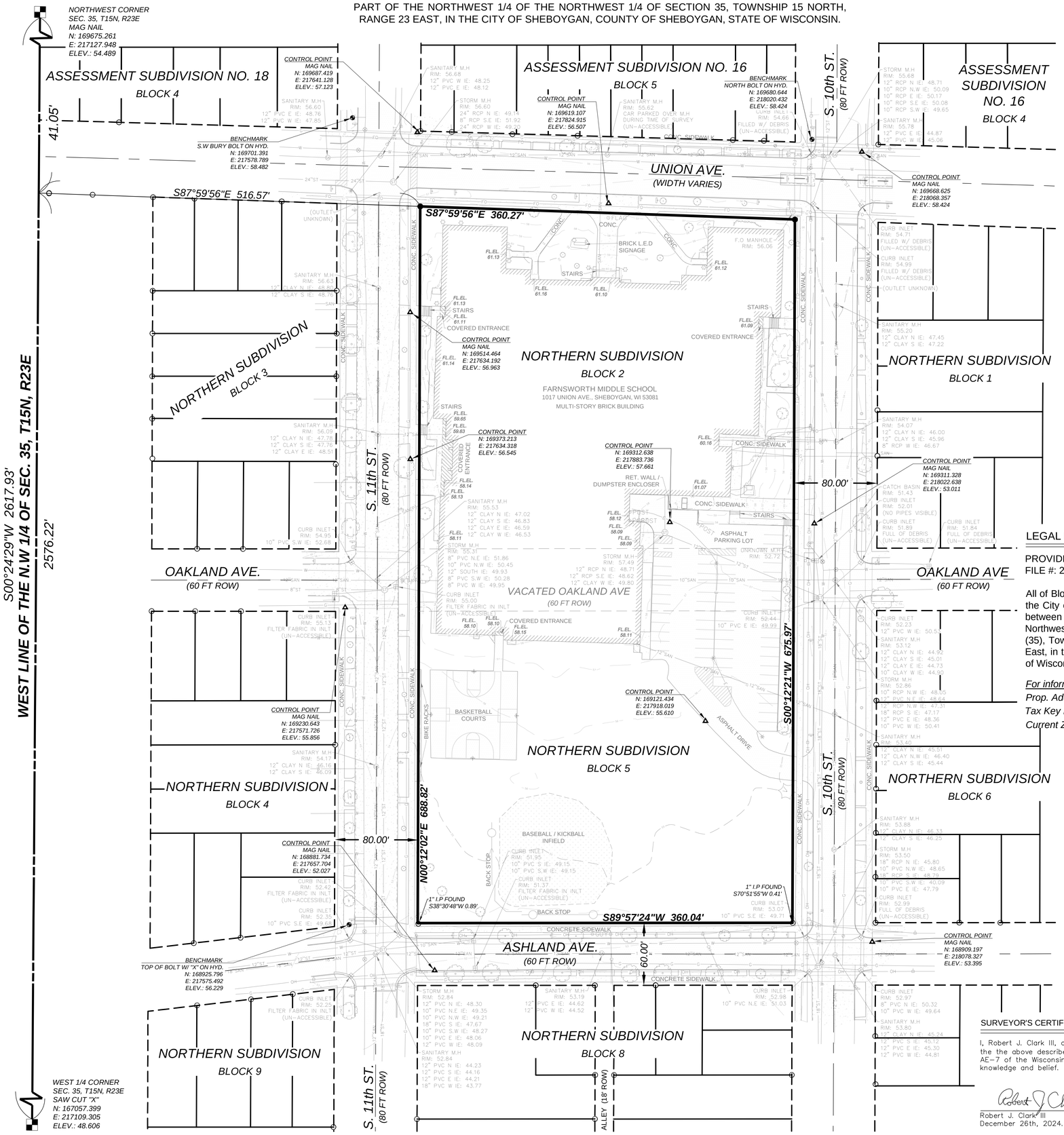
DIGGERS HOTLINE

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Milwaukee Area (414)259-1181
Hearing Impaired TDD (800)542-2289
www.DiggersHotline.com
REGISTER'S HOTLINE TICKETS:
20244712338, 20244712339, 20245002944.

ALTHOUGH DIGGERS' HOTLINE WAS NOTIFIED THIS SURVEY DOES NOT GUARANTEE THAT ALL UTILITIES HAVE BEEN LOCATED ON SITE. SOME OF THE UTILITIES MAY HAVE BEEN DRAWN IN PER PLAN BASED ON MAPS RECEIVED FROM MEMBERS NOTIFIED. LACKING EXCAVATION THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION MAY BE NECESSARY.

## LEGEND

- = BENCH MARK
- = CONTROL POINT
- = 1" IRON PIPE O.D. FOUND OR AS NOTED
- = 1-1/4" O.D.x 18"LONG. IRON PIPE SET, WEIGHING 1.68 LBS./FT.
- = SECTION CORNER MON.
- (R.A.)= RECORDED AS
- O.D. = OUTSIDE DIAMETER
- = WATER VALVE
- = FIRE HYDRANT
- 970.90= SPOT ELEVATION
- = BUSH, SHRUB
- = POLE/POST/BOLLARD
- = BOULDER
- (P) = PULLBOX
- (MH) = MANHOLE TYPE NOTED
- (SA) = SANITARY SEWER MANHOLE
- (ST) = STORM SEWER MANHOLE
- (E) = ELECTRIC MANHOLE
- (T) = TELEPHONE MANHOLE
- (W) = WATER MANHOLE
- = UTILITY METER
- = GUY WIRE POLE
- = LIGHT POLE
- = PEDESTAL
- = POWER POLE
- = INLET
- = CURB INLET
- = GAS VALVE
- = LIGHT POLE WITH MAST
- = TREE (CONIFEROUS) DRIP LINE SCALABLE
- = TREE (DECIDUOUS) DRIP LINE SCALABLE
- CO = CLEANOUT
- FLAG = FLAG POLE
- UMP = UTILITY MARKER POST
- = SIGN ON POST
- = UTILITY CONTROL BOX
- VLV = UNKNOWN UTILITY VALVE
- FL. EL. = FIRST FLOOR ELEVATION
- = BUILDING OUTLINE
- 3 = MINOR CONTOUR
- 5 = MAJOR CONTOUR
- = FENCE
- = BEAM GUARD
- = CHAINLINK FENCE
- = WOODED AREA/SHRUB EDGE
- W = WATER MAIN
- ST = STORM SEWER
- SAN = SANITARY SEWER
- G = NATURAL GAS MAIN
- T = UNDERGROUND TELEPHONE
- E = UNDERGROUND ELECTRIC
- OH = OVERHEAD UTILITY LINES
- FO = UNDERGROUND FIBER OPTIC
- TV = UNDERGROUND CABLE TV
- C = COMMUNICATION CONDUIT
- (P) = UTILITIES PER PLAN
- = ASPHALT SURFACE
- = CONCRETE SURFACE
- = SAND/ CRUSHED AGG. INFIELD SURFACE




## LEGAL DESCRIPTION:

PROVIDED PER KNIGHT BARRY TITLE INC., FILE #: 2308758, EFFECTIVE DATE DECEMBER 12, 2024.

All of Blocks Two (2) and Five (5) of Northern Subdivision of the City of Sheboygan and that portion of Oakland Avenue, between said blocks, which has been vacated, all in the Northwest 1/4 of the Northwest 1/4 of Section Thirty-five (35), Township Fifteen (15) North, Range Twenty-three (23) East, in the City of Sheboygan, County of Sheboygan, State of Wisconsin.

*For informational purposes only:*

*Prop. Address: 1017 Union Avenue, Sheboygan, WI 53081*

*Tax Key Number: 59281314270*

*Current Zoning: Neighborhood Residential-6 District*

## SURVEYOR'S CERTIFICATE:

I, Robert J. Clark III, do hereby certify that that under My direction and control the the above described property was surveyed on 12/04/2024 in accordance with AE-7 of the Wisconsin Administrative Code and is correct to the best of my knowledge and belief.

Robert J. Clark III S-2710
December 26th, 2024.


kapur
7711 N. Port Washington Road
Milwaukee, Wisconsin 53217
kapurinc.com


PROJECT:
FARNSWORTH MIDDLE SCHOOL

LOCATION:
1017 UNION AVE., SHEBOYGAN, WI 53081

CLIENT:
BRAY ARCHITECTS

RELEASE:
FINAL

REVISIONS:

| # | DATE | DESCRIPTION |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

NORTH ARROW:

SCALE: 1" = 40'
0' 20' 40' 60'

SEAL:
WISCONSIN
ROBERT J. CLARK III
S-2710
OCONTO FALLS, WISCONSIN
LAND SURVEYOR

all in

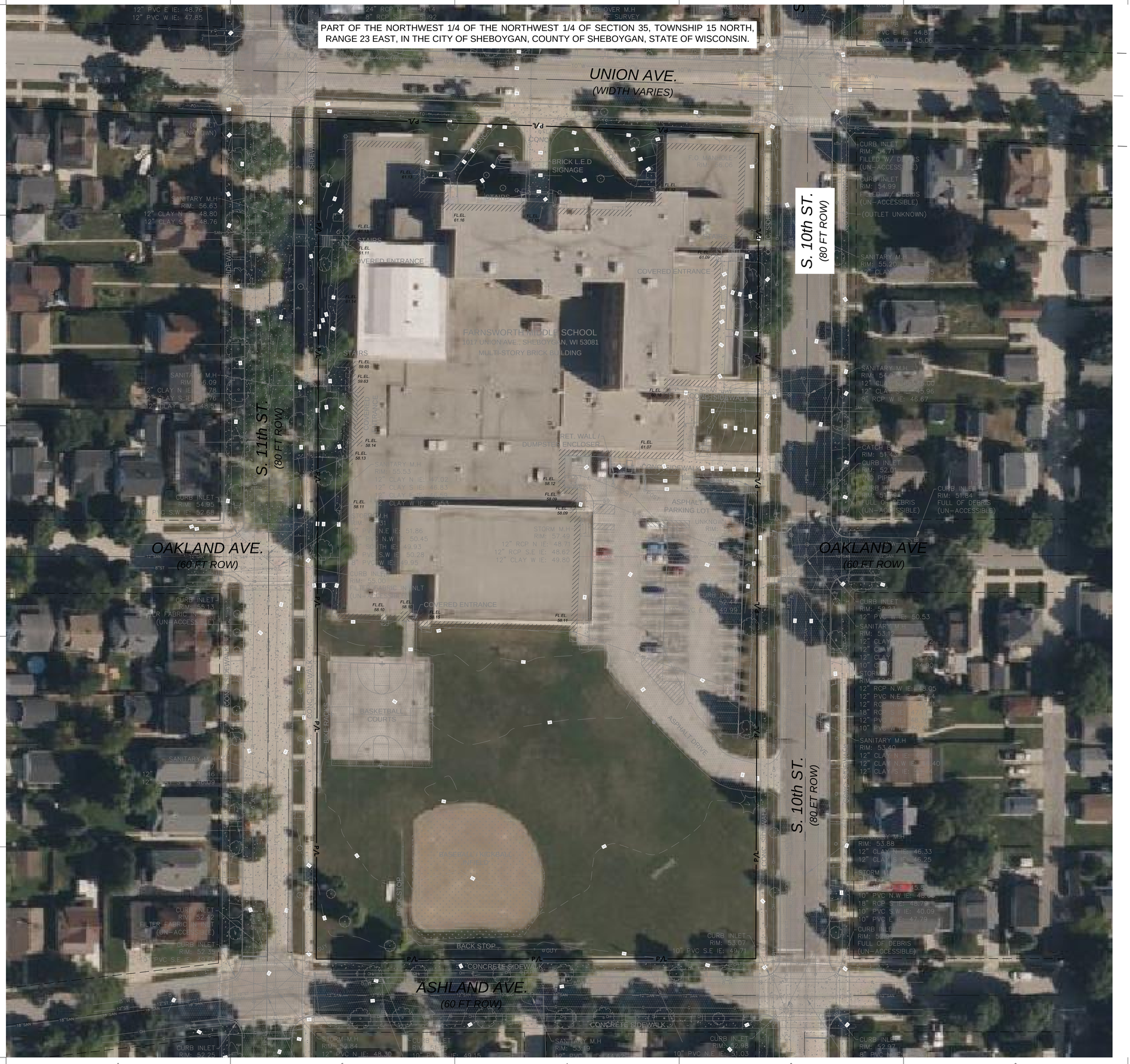
SHEET:
PLAT OF SURVEY WITH TOPOGRAPHY

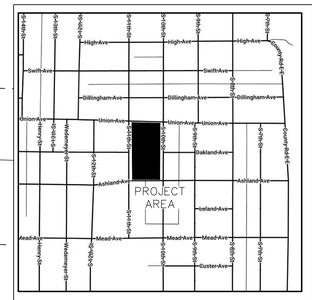
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| PROJECT MANAGER: | B.S |
| PROJECT NUMBER: | 25.0128 |
| DATE: | 12/26/2024 |

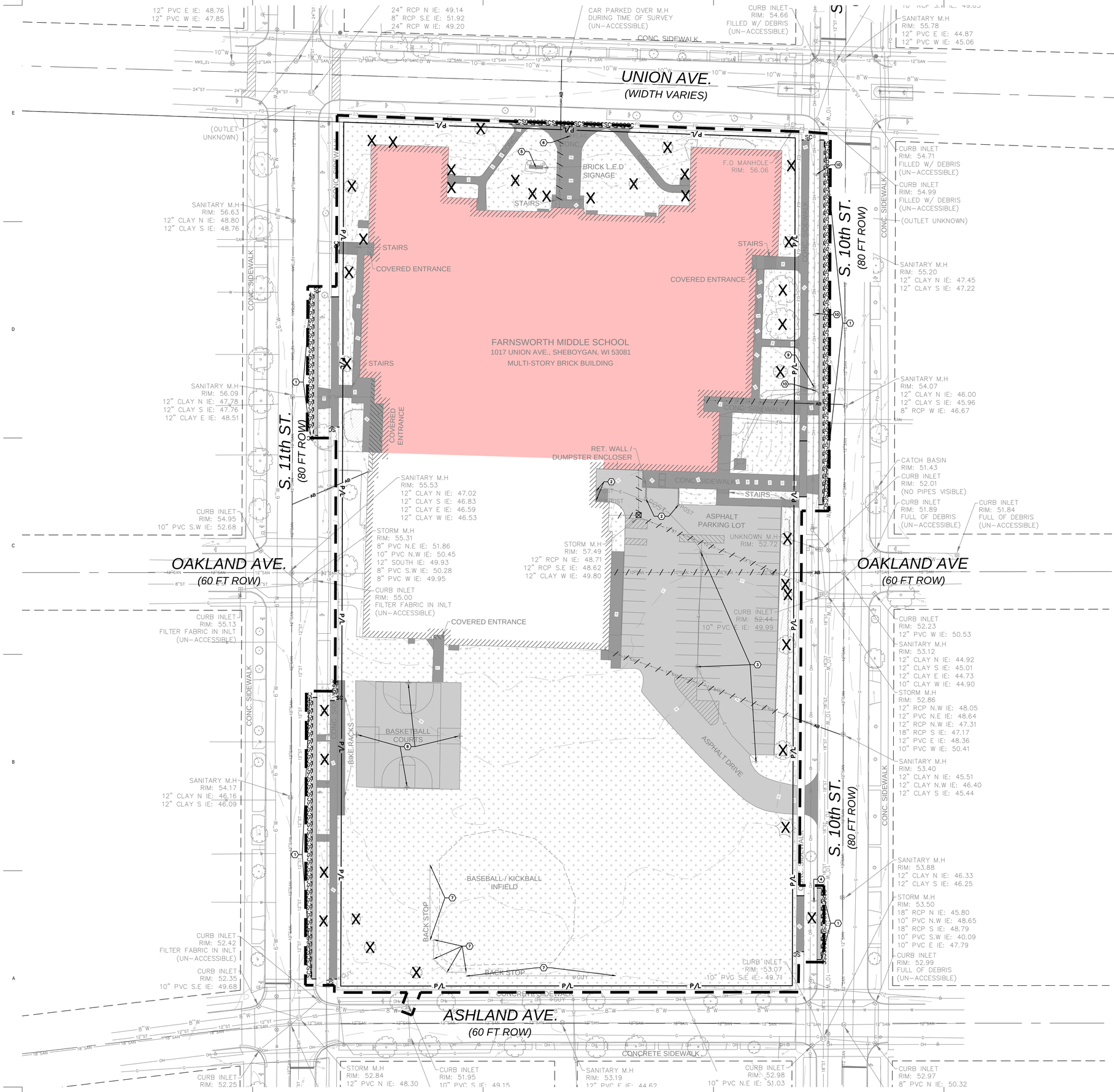
SHEET NUMBER:
SU1.10

FILENAME: S:_SiteDsgn\Bray Architects\250128 Sheboygan Area SD 2024 Referendum\250128 03 Farnsworth MS\Survey\DWG\250128 03_Plat.dwg

PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 15 NORTH, RANGE 23 EAST, IN THE CITY OF SHEBOYGAN, COUNTY OF SHEBOYGAN, STATE OF WISCONSIN.





PROJECT AREA
High Ave
Swift Ave
Dillingham Ave
Union Ave
Oakland Ave
Ashland Ave
Leland Ave
Mead Ave
Custer Ave
Superior Ave
Wisconsin Ave
Michigan Ave
Illinois Ave
Indiana Ave
Ohio Ave
Kentucky Ave
Tennessee Ave
Virginia Ave
Georgia Ave
Florida Ave
Alabama Ave
Mississippi Ave
Louisiana Ave
Texas Ave
Arizona Ave
Nevada Ave
Oregon Ave
Washington Ave
Idaho Ave
Montana Ave
Wyoming Ave
Colorado Ave
Utah Ave
Kansas Ave
Nebraska Ave
Dakota Ave
Minnesota Ave
Iowa Ave
Missouri Ave
Arkansas Ave
Pennsylvania Ave
New York Ave
Maine Ave
Vermont Ave
New Hampshire Ave
Massachusetts Ave
Rhode Island Ave
Connecticut Ave
New Jersey Ave
Delaware Ave
Maryland Ave
North Carolina Ave
South Carolina Ave
Alaska Ave
Hawaii Ave
Puerto Rico Ave
Guam Ave
Virgin Islands Ave
American Samoa Ave
Northern Mariana Islands Ave
Commonwealth Ave
Territory Ave
District of Columbia Ave
Federal Ave
State Ave
County Ave
City Ave
Township Ave
Village Ave
Borough Ave
Parish Ave
Municipality Ave
Region Ave
Province Ave
Territory Ave
Commonwealth




Scale: 0 15 30 60
Scale: 1" = 30'

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## DEMOLITION NOTES

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SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

REVISIONS:

| | DATE | DESCRIPTION |
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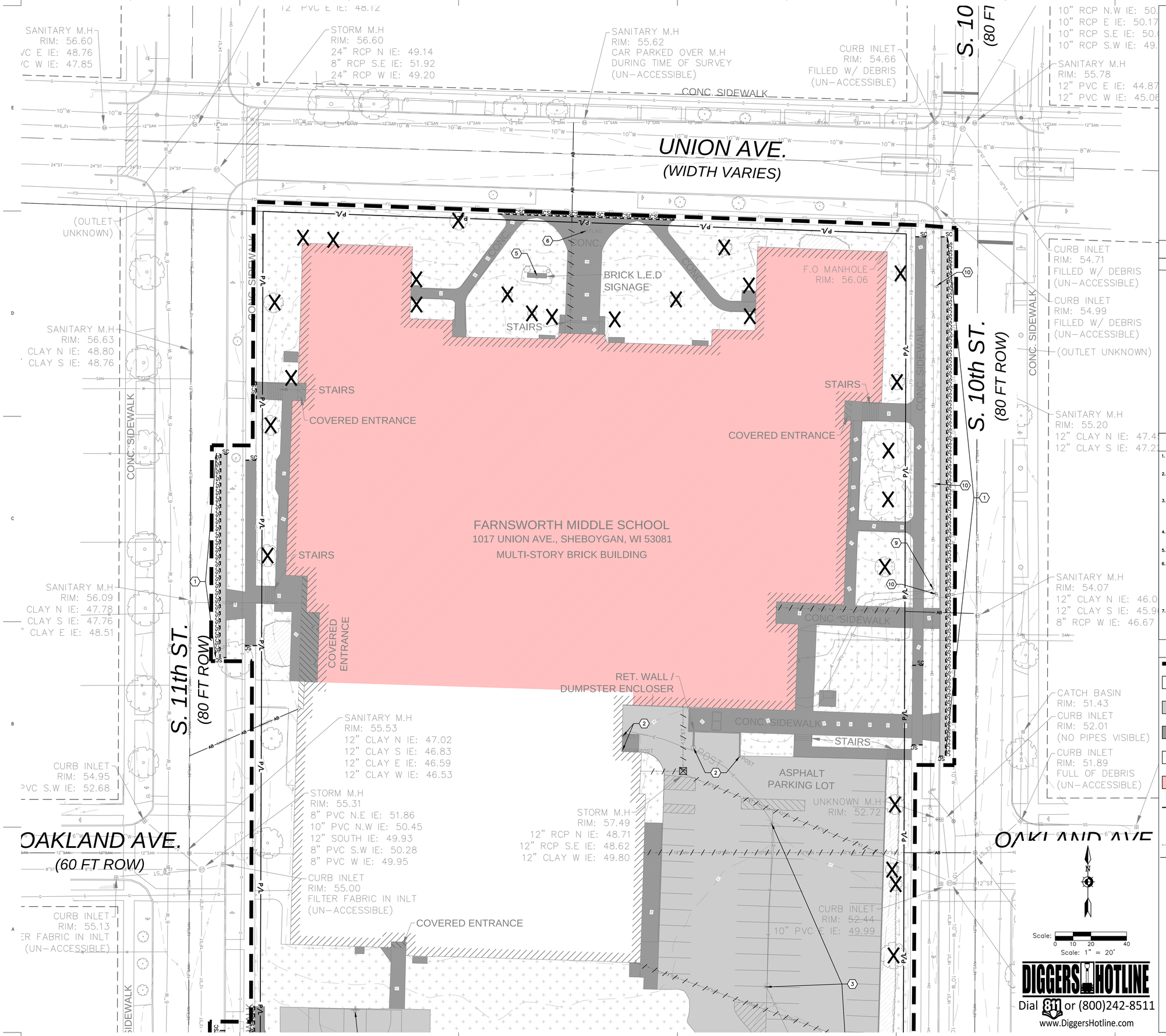
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CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
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Sheet Title:
**OVERALL SITE DEMOLITION PLAN**

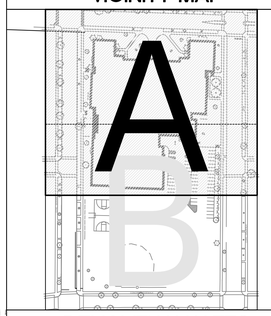
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## VICINITY MAP




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- AB AB — denotes utilities to be abandoned in place.
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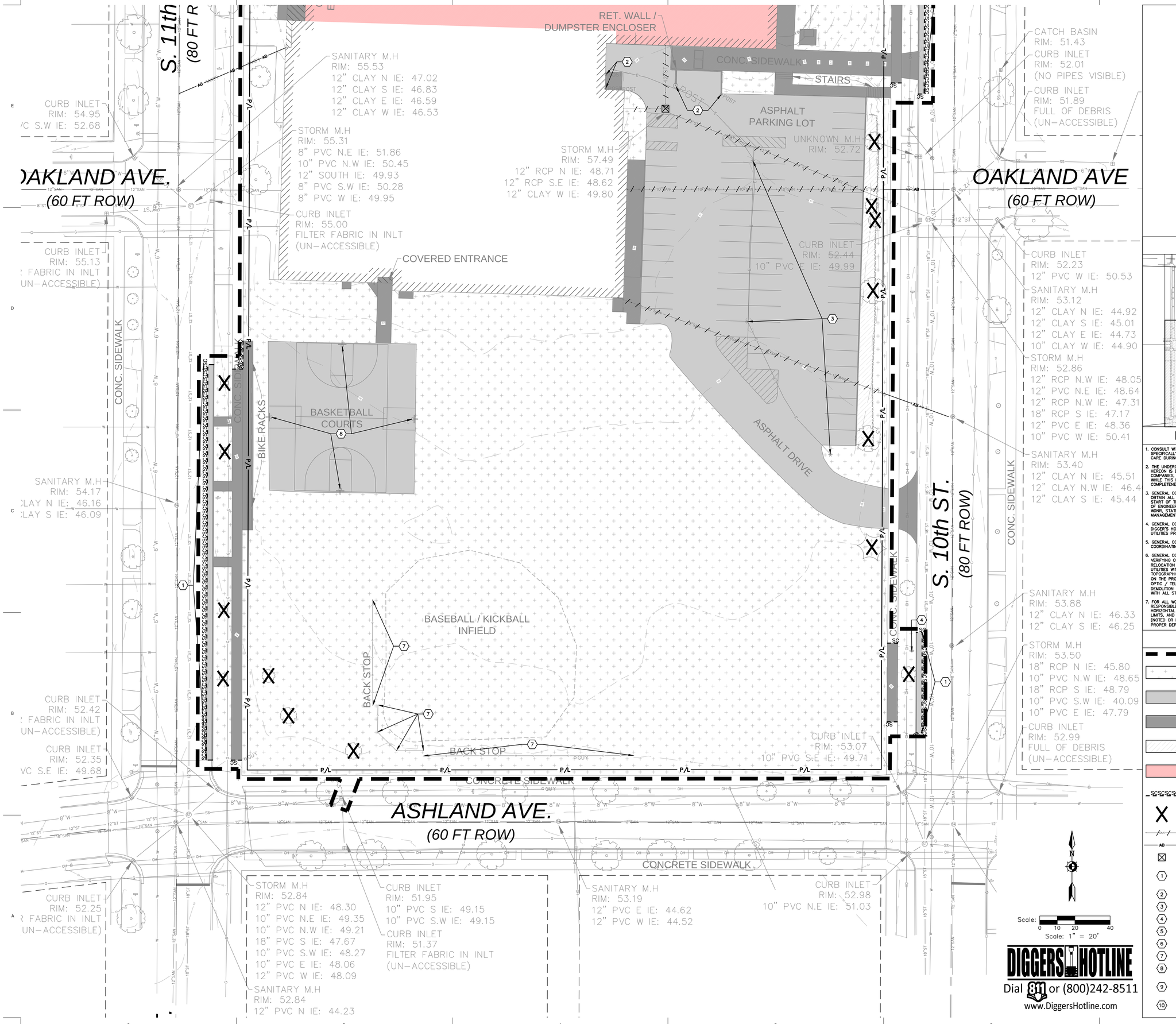
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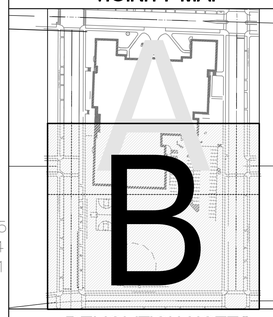
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**SITE DEMOLITION PLAN - AREA A**

Sheet Number:
C1.11A

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## VICINITY MAP




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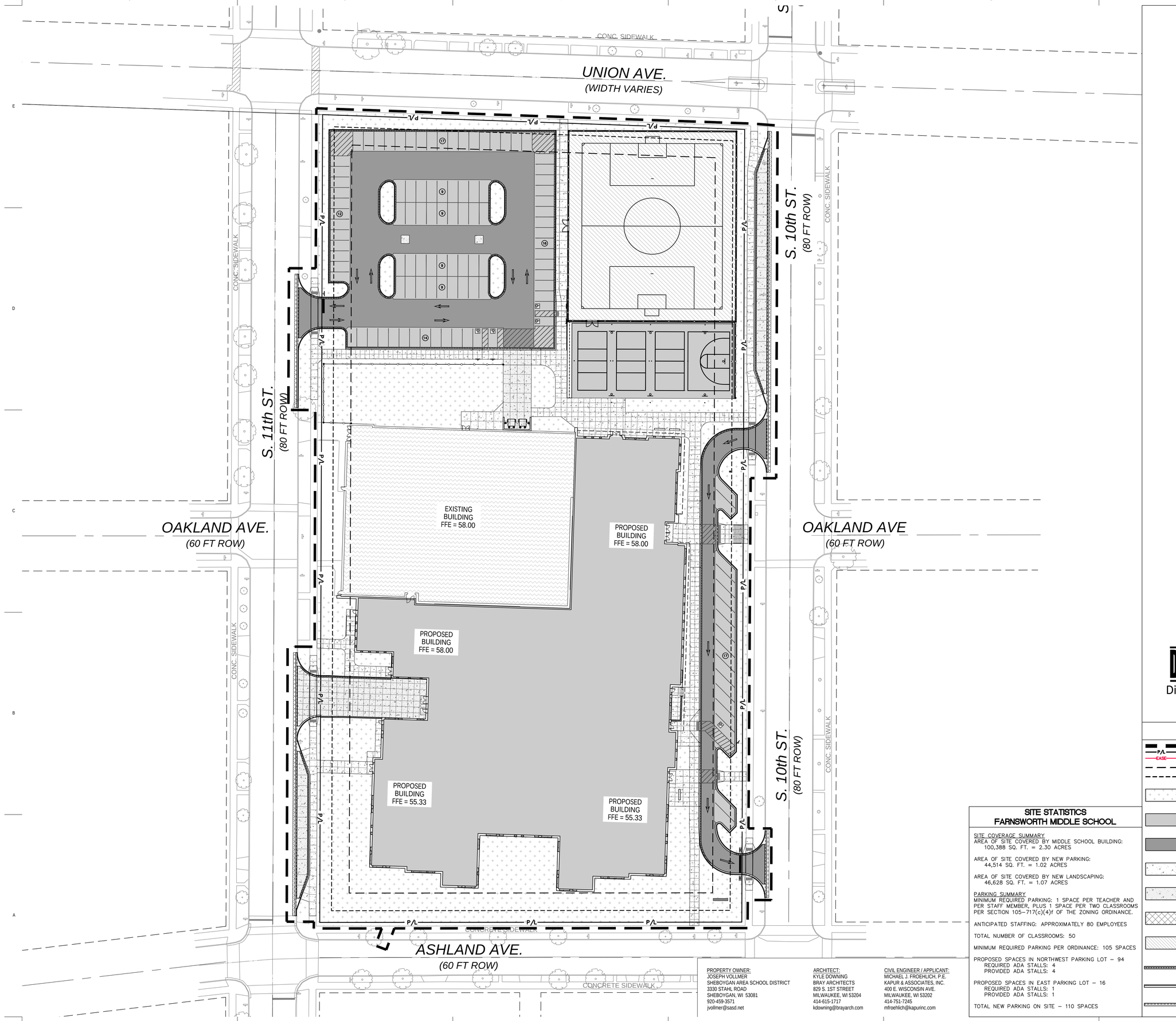
Issued for:
CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
3415

Sheet Title:
**SITE DEMOLITION PLAN - AREA B**

Sheet Number:
C1.12B

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## SITE STATISTICS
## FARNSWORTH MIDDLE SCHOOL

SITE COVERAGE SUMMARY
AREA OF SITE COVERED BY MIDDLE SCHOOL BUILDING:
100,388 SQ. FT. = 2.30 ACRES

AREA OF SITE COVERED BY NEW PARKING:
44,514 SQ. FT. = 1.02 ACRES

AREA OF SITE COVERED BY NEW LANDSCAPING:
46,628 SQ. FT. = 1.07 ACRES

PARKING SUMMARY
MINIMUM REQUIRED PARKING: 1 SPACE PER TEACHER AND PER STAFF MEMBER, PLUS 1 SPACE PER TWO CLASSROOMS PER SECTION 105-717(c)(4)f OF THE ZONING ORDINANCE.

ANTICIPATED STAFFING: APPROXIMATELY 80 EMPLOYEES

TOTAL NUMBER OF CLASSROOMS: 50

MINIMUM REQUIRED PARKING PER ORDINANCE: 105 SPACES

PROPOSED SPACES IN NORTHWEST PARKING LOT – 94
REQUIRED ADA STALLS: 4
PROVIDED ADA STALLS: 4

PROPOSED SPACES IN EAST PARKING LOT – 16
REQUIRED ADA STALLS: 1
PROVIDED ADA STALLS: 1

TOTAL NEW PARKING ON SITE – 110 SPACES


PROPERTY OWNER:
JOSEPH VOLLMER
SHEBOYGAN AREA SCHOOL DISTRICT
3330 STAHL ROAD
SHEBOYGAN, WI 53081
920-459-3571
jvollmer@sasd.net

ARCHITECT:
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kdowning@brayarch.com

CIVIL ENGINEER / APPLICANT:
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414-751-7245
mfroehlich@kapurinc.com


Scale: 0 15 30 60
Scale: 1" = 30'

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## KEY INDEX

- PROJECT LIMITS
- P/L PROPERTY LINE
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- NEW HEAVY DUTY CONCRETE SLAB — 2/C2.11, 3/C2.11
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- LOW-SIDE CONCRETE CURB & GUTTER 18" BARRIER UNLESS OTHERWISE NOTED — 4/C2.11
- DEPRESSED CONCRETE CURB & GUTTER 18" DEPRESSED UNLESS OTHERWISE NOTED — 5/C2.11


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Project Title:
Addition & Renovation to:
FARNSWORTH MIDDLE SCHOOL
SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

REVISIONS:

| | DATE | DESCRIPTION |
|---|---|---|

Issued for:
CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
3415

Sheet Title:
**OVERALL SITE LAYOUT PLAN**

Sheet Number:
C1.20

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UNION AVE.
(WIDTH VARIES)
CONC. SIDEWALK
S. 10th ST.
(80 FT ROW)
CONC. SIDEWALK
S. 11th ST.
(80 FT ROW)
OAKLAND AVE
(60 FT ROW)
EXISTING BUILDING FFE = 58.00
PROPOSED BUILDING FFE = 58.00
PROPOSED BUILDING FFE = 58.00

VICINITY MAP

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SHEBOYGAN, WI 53081

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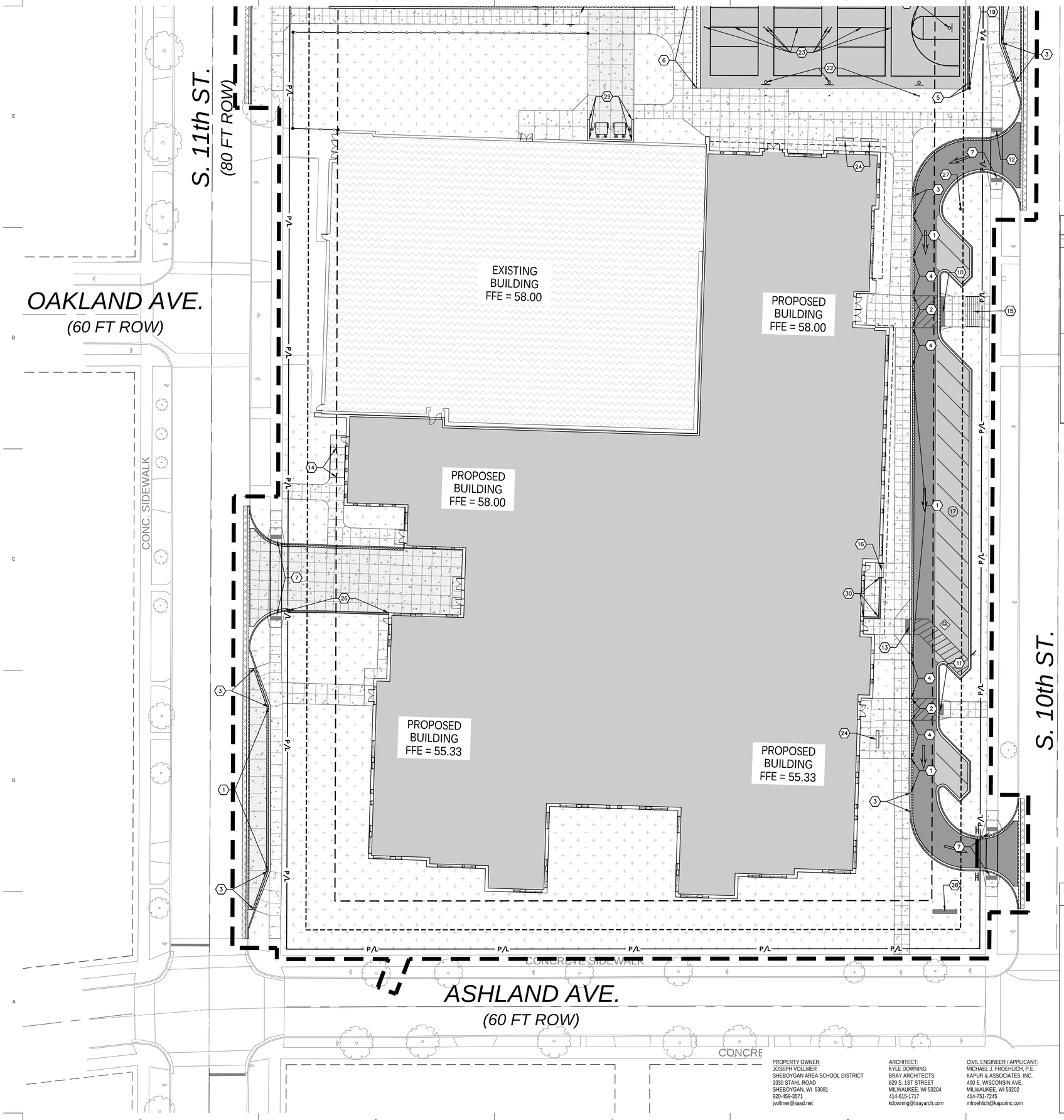
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CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
3415

Sheet Title:
**SITE LAYOUT PLAN - AREA A**

Sheet Number:
C1.21A

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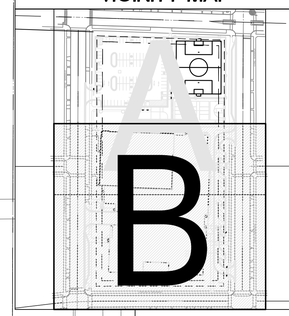



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Scale: 0 10 20 40
Scale: 1" = 20'

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## VICINITY MAP




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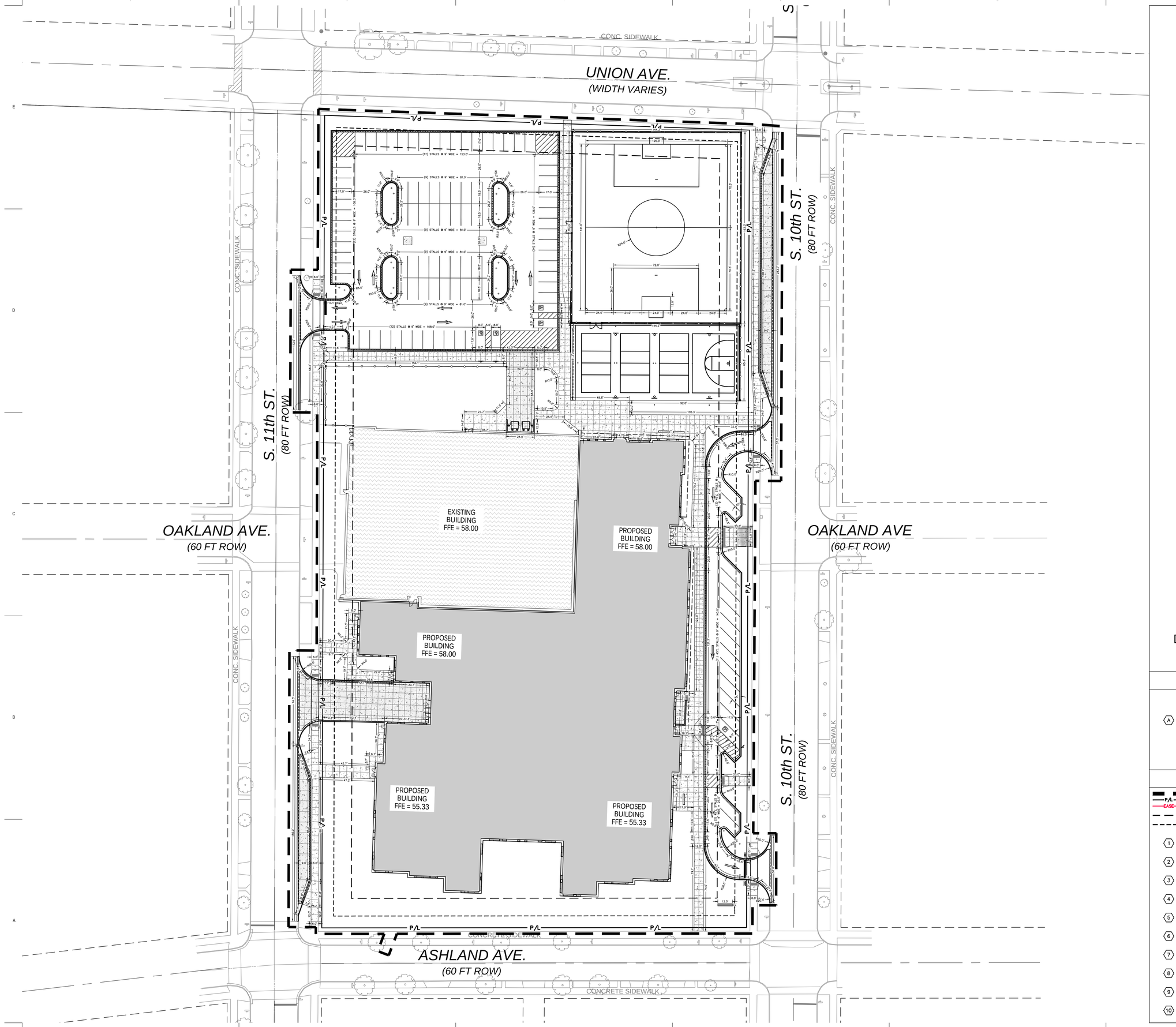
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**SITE LAYOUT PLAN - AREA B**

Sheet Number:
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## SIGN INDEX

A — STOP — R1–1, 30" X 30"

B — DO NOT ENTER — R5–1, 30" X 30"

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| | | |
|---|---|---|
| 1 | PAVEMENT MARKING ARROWS, LATEX PAVEMENT MARKING PAINT, WHITE (SEE WDOT PAVEMENT MARKING S.D.D.) | |
| 2 | PAVEMENT MARKING STOP LINE, LATEX PAVEMENT MARKING PAINT, WHITE (SEE WDOT PAVEMENT MARKING S.D.D.) | |
| 3 | PAVEMENT MARKING CROSSWALK, LATEX PAVEMENT MARKING PAINT, WHITE, 4–INCH LONGITUDINAL BAR STRIPING. | |
| 4 | PAVEMENT MARKING CROSSWALK, LATEX PAVEMENT MARKING PAINT, WHITE, 4–INCH WIDE DIAGONAL STRIPING, 3' O.C. SPACING | |
| 5 | NEW 4" WHITE PAINT 36" O.C. FOR DIAGONALS | 5 C2.14 |
| 6 | NEW 4" WHITE PAINT 36" O.C. FOR DIAGONALS | 6 C2.14 |
| 7 | NEW 4" WHITE PAINT 36" O.C. FOR DIAGONALS | 7 C2.14 |
| 8 | NEW ACCESSIBLE PARKING SYMBOL | 1 C2.14 |
| 9 | NEW ACCESSIBLE SIGNS | 2 C2.14 |
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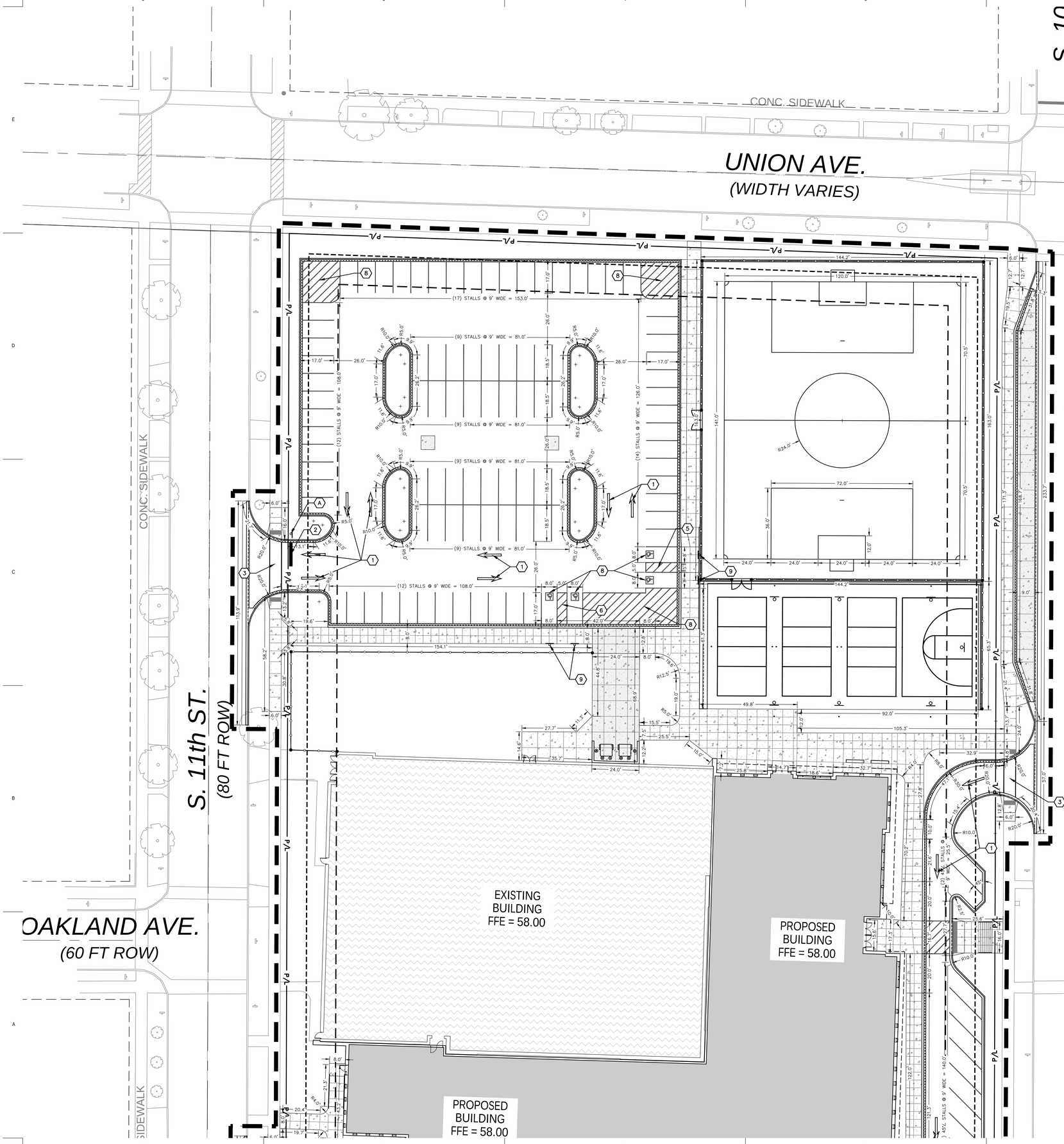
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Sheet Title:
**OVERALL SITE SIGNAGE & TRAFFIC CONTROL PLAN**

Sheet Number:
C1.30

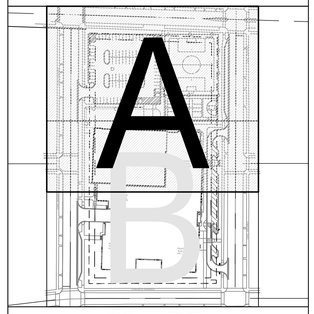
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## VICINITY MAP



## SIGN INDEX

| | | |
|---|---|---|
| A |  R1–1 30" X 30" |  R5–1 30" X 30" B |

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SHEBOYGAN, WI 53081

REVISIONS:

| | DATE | DESCRIPTION |
|---|---|---|

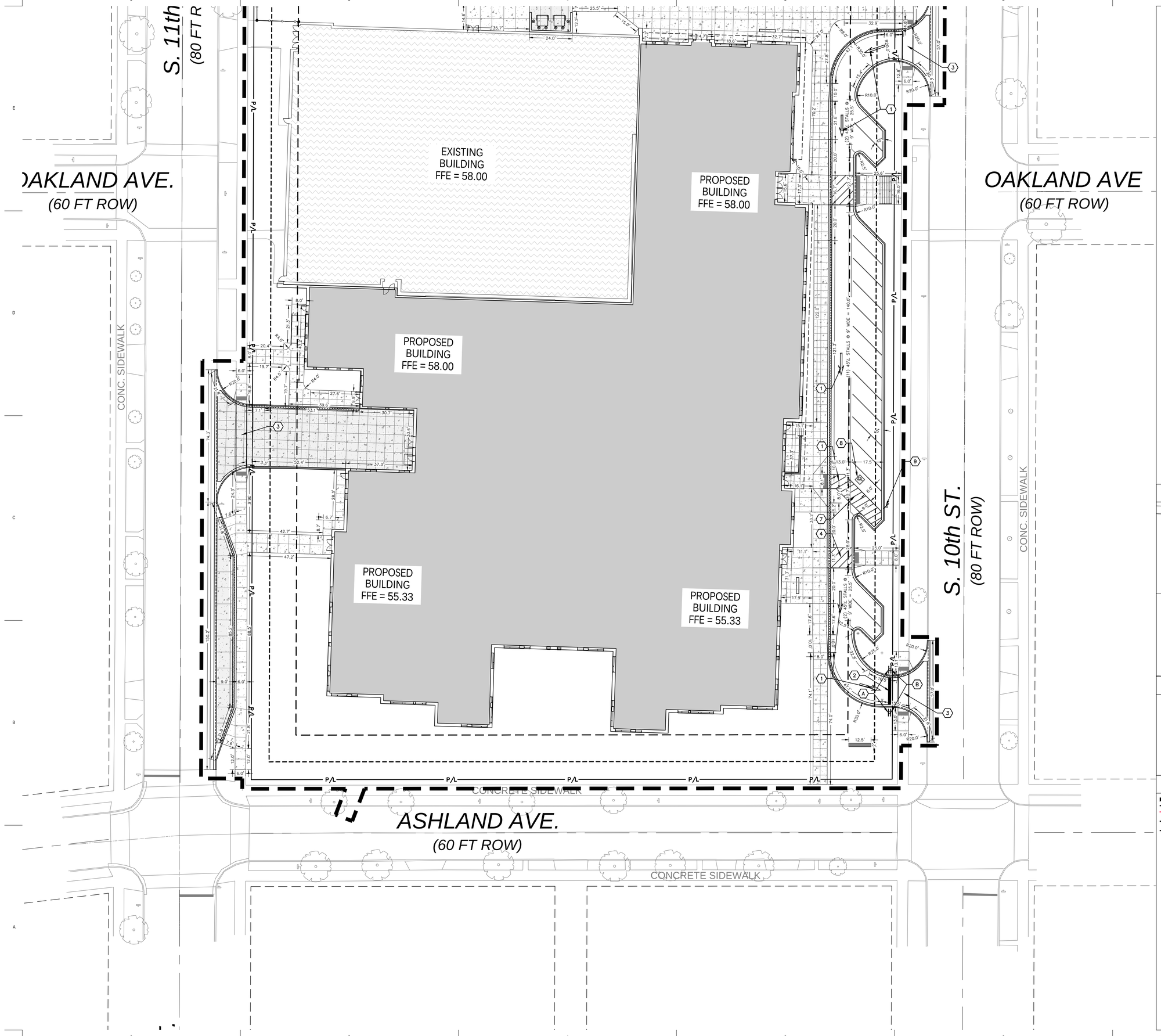
Issued for:
CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
3415

Sheet Title:
**SITE SIGNAGE & TRAFFIC CONTROL PLAN - AREA A**

Sheet Number:
C1.31A

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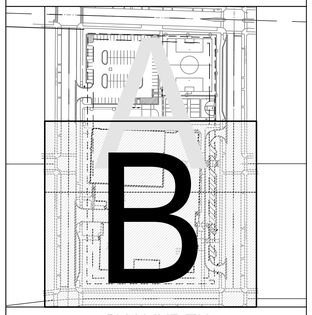
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## VICINITY MAP




## SIGN INDEX

A — STOP — R1–1, 30" X 30"

B — DO NOT ENTER — R5–1, 30" X 30"

## KEY INDEX

- PROJECT LIMITS
- P/L — PROPERTY LINE
- EASE — EASEMENT LINE
- 25' BUILDING TO FRONT OR STREET SIDE LOT LINE SETBACK
- 10' PAVED SURFACE TO STREET LOT LINE SETBACK

1. PAVEMENT MARKING ARROWS, LATEX PAVEMENT MARKING PAINT, WHITE (SEE WDOT PAVEMENT MARKING S.D.D.)
2. PAVEMENT MARKING STOP LINE, LATEX PAVEMENT MARKING PAINT, WHITE (SEE WDOT PAVEMENT MARKING S.D.D.)
3. PAVEMENT MARKING CROSSWALK, LATEX PAVEMENT MARKING PAINT, WHITE, 4–INCH LONGITUDINAL BAR STRIPING.
4. PAVEMENT MARKING CROSSWALK, LATEX PAVEMENT MARKING PAINT, WHITE, 4–INCH WIDE DIAGONAL STRIPING, 3' O.C. SPACING
5. NEW 4" WHITE PAINT 36" O.C. FOR DIAGONALS — 5/C2.14
6. NEW 4" WHITE PAINT 36" O.C. FOR DIAGONALS — 6/C2.14
7. NEW 4" WHITE PAINT 36" O.C. FOR DIAGONALS — 7/C2.14
8. NEW ACCESSIBLE PARKING SYMBOL — 1/C2.14
9. NEW ACCESSIBLE SIGNS — 2/C2.14
10. NEW 4" WHITE PAINT 36" O.C. FOR DIAGONALS

Project Title:
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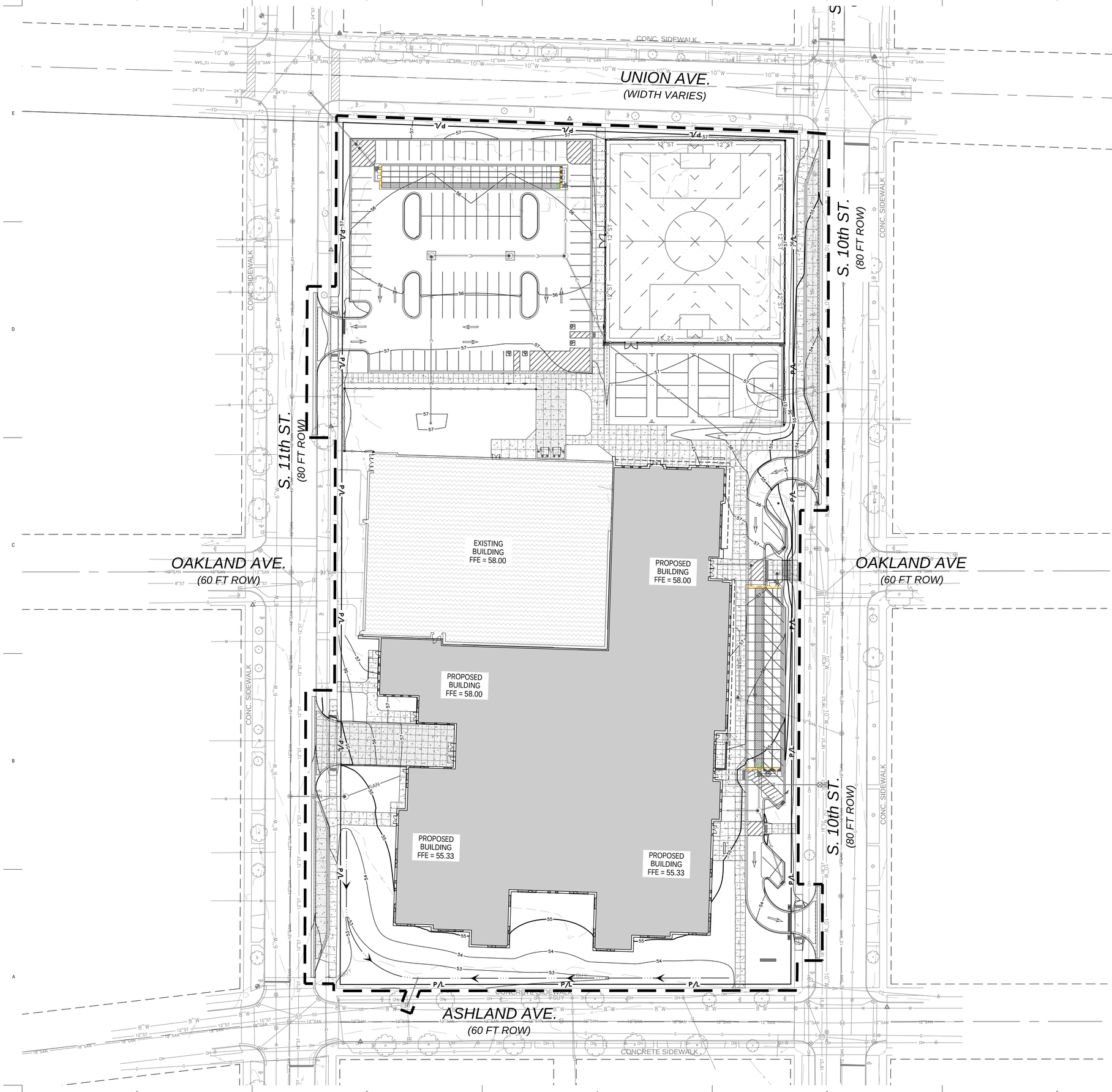
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PLAN REVIEW
2/02/2026

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Sheet Title:
**SITE SIGNAGE & TRAFFIC CONTROL PLAN - AREA B**

Sheet Number:
C1.32B

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## KEY INDEX

- PROJECT LIMITS
- P/L PROPERTY LINE
- EASE EASEMENT LINE
- 56 EXISTING CONTOUR MINOR
- 55 EXISTING CONTOUR MAJOR
- 56 PROPOSED CONTOUR MINOR
- 55 PROPOSED CONTOUR MAJOR

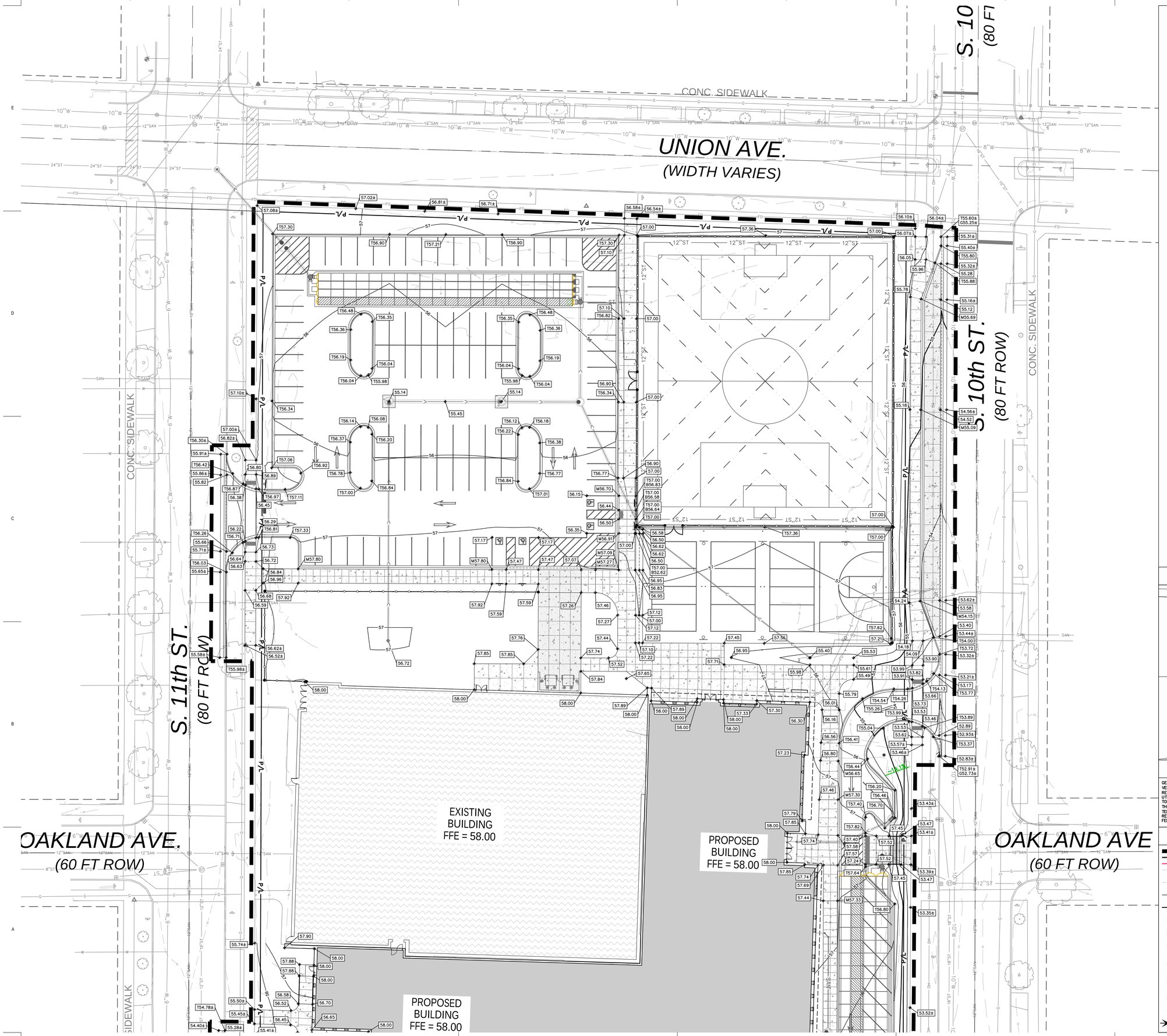
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2/02/2026

Project Number:
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Sheet Title:
**OVERALL SITE GRADING PLAN**

Sheet Number:
C1.40

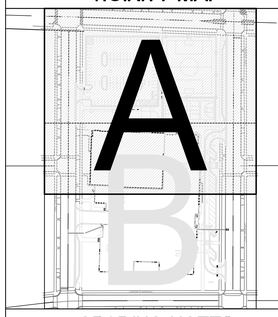
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## VICINITY MAP



## GRADING NOTES

GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND / OR RELOCATION / ELEVATION ADJUSTMENT OF ALL EXISTING PUBLIC OR PRIVATE UTILITIES WITHIN THE PROJECT LIMITS THAT MAY BE AFFECTED BY TOPOGRAPHICAL CHANGES, UTILITIES, OR OTHER PROPOSED CONSTRUCTION ON THE PROJECT, INCLUDING BUT NOT LIMITED TO ELECTRICAL / FIBER OPTIC / TELEPHONE / CABLE / GAS / WATER / SANITARY / STORM. DEMOLITION / RELOCATION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND UTILITY OWNER REGULATIONS.

## KEY INDEX

- P/L — PROJECT LIMITS
- P/L — PROPERTY LINE
- EASE — EASEMENT LINE
- 56 — EXISTING CONTOUR MINOR
- 55 — EXISTING CONTOUR MAJOR
- 56 — PROPOSED CONTOUR MINOR
- 55 — PROPOSED CONTOUR MAJOR
- 55.00 — PROPOSED SPOT GRADE
- 55.00± — MATCH EXISTING GRADE
- T55.50 — PROPOSED TOP OF BARRIER CURB GRADE. GUTTER IS 6" BELOW TOP OF CURB UNLESS OTHERWISE NOTED.
- T55.50± — MATCH EXISTING TOP OF BARRIER CURB GRADE. GUTTER IS 6" BELOW TOP OF CURB UNLESS OTHERWISE NOTED.
- M55.33 — PROPOSED TOP OF MOUNTABLE CURB GRADE. GUTTER IS 4" BELOW TOP OF CURB UNLESS OTHERWISE NOTED.
- TW56.00 — PROPOSED TOP OF WALL GRADE
- BW54.00 — PROPOSED BOTTOM OF WALL GRADE
- DRAINAGE SWALE

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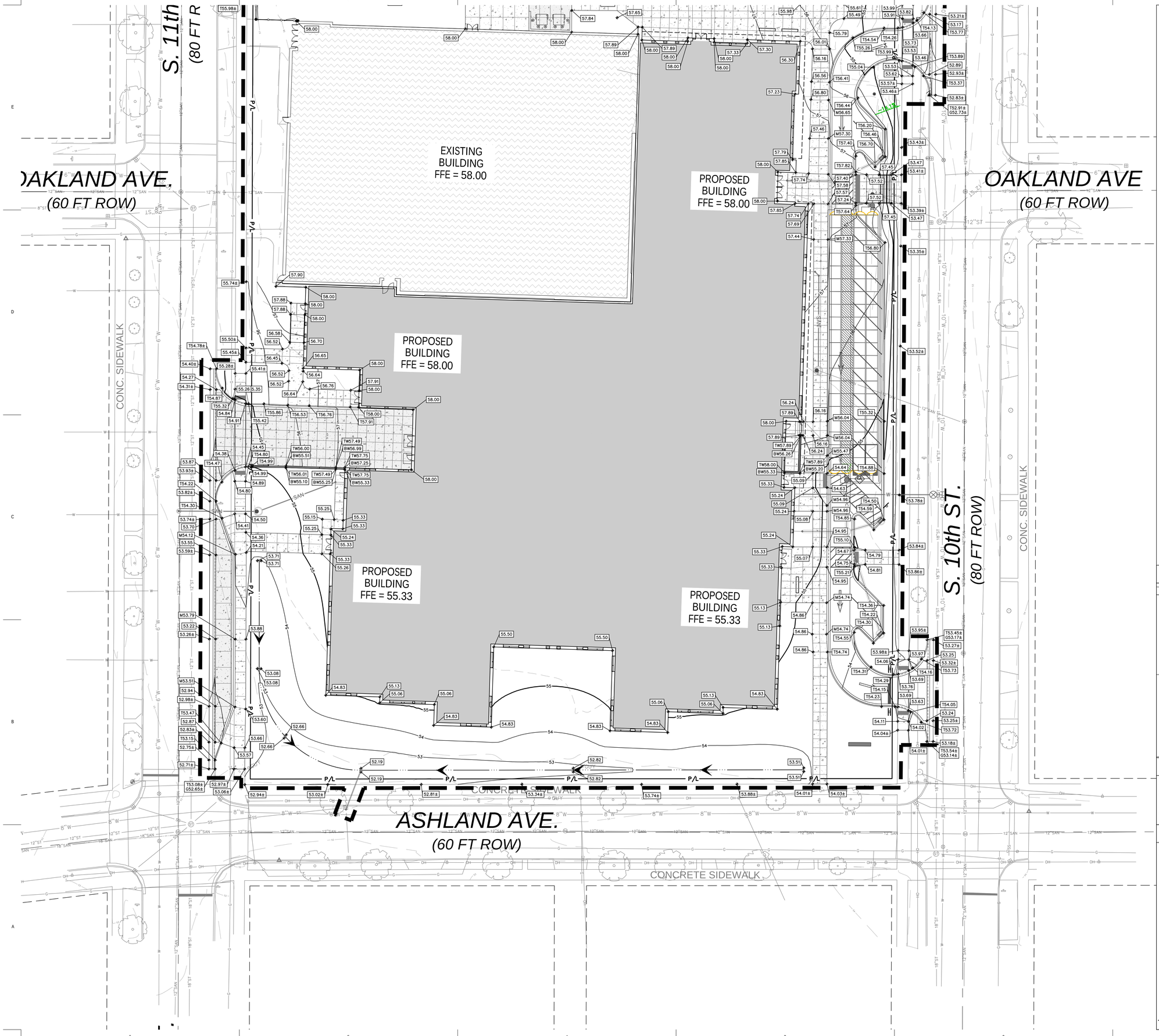
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Sheet Title:
**SITE GRADING PLAN - AREA A**

Sheet Number:
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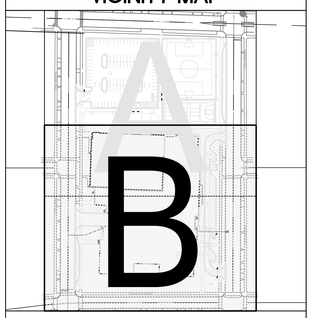
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## VICINITY MAP




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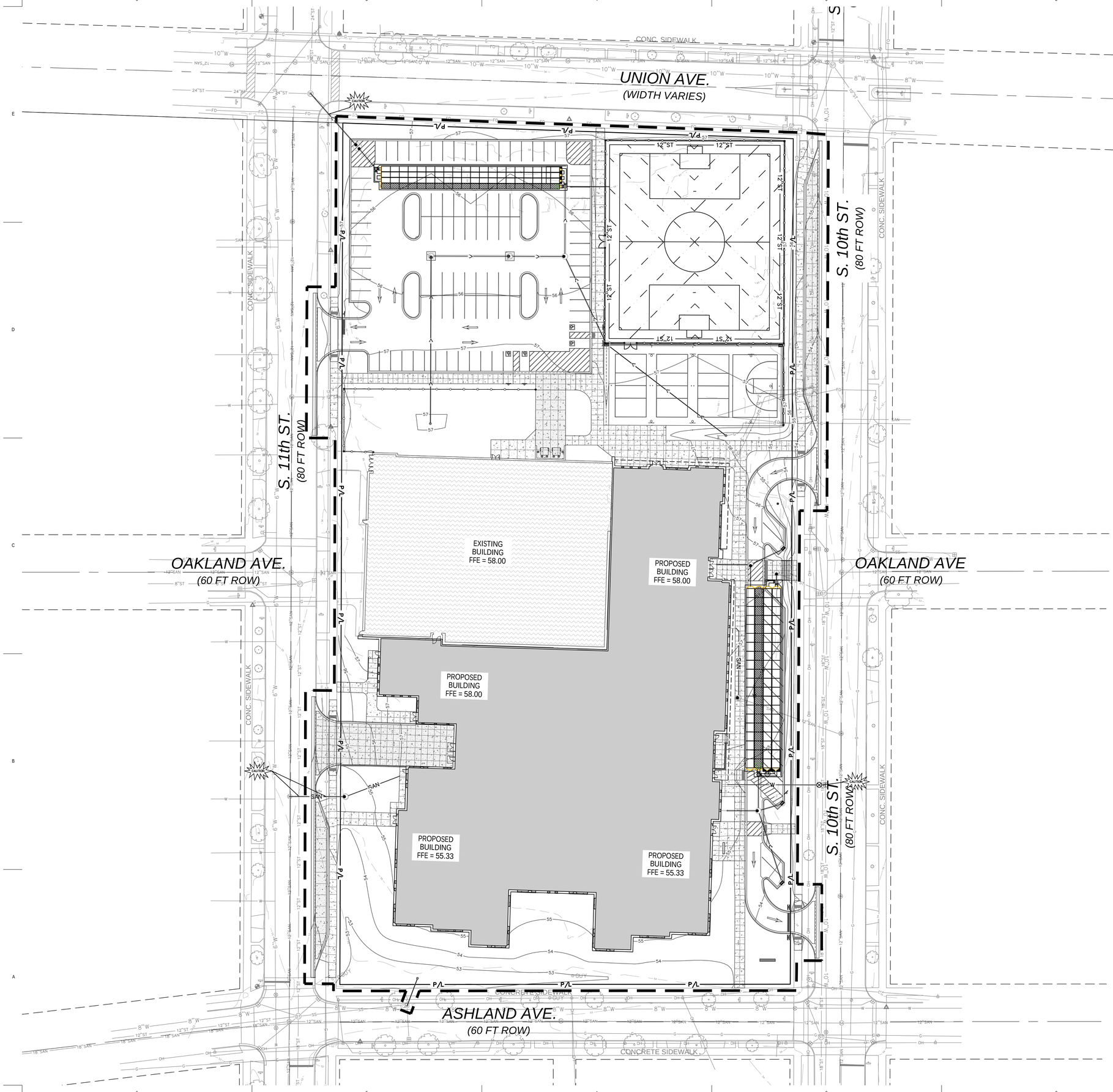
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Sheet Title:
**SITE GRADING PLAN - AREA B**

Sheet Number:
C1.42B

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## UTILITY NOTES

CAUTION — KNOWN UTILITY AND POTENTIAL CONFLICT EXIST WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO UTILITY INSTALLATION, CONTRACTOR TO EXCAVATE AND EXPOSE EXISTING UTILITIES, VERIFY LOCATIONS AND ELEVATIONS, AND CONTACT ENGINEER IF CONFLICTS EXIST WITH PROPOSED CONSTRUCTION AND EXISTING UNDERGROUND UTILITIES.

1. PER PROJECT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, THE POINT OF COMMENCEMENT FOR THE LAYING OF SEWER PIPE SHALL BE AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. THE PIPE SHALL BE LAID WITH THE BELL END OF THE BELL AND SPIGOT PIPE, OR WITH THE RECEIVING GROOVE END OF THE TONGUE AND GROOVE PIPE, POINTING UPGRADE. WHEN A NEW SEWER IS TO BE CONNECTED TO AN EXISTING SEWER NOT TERMINATING IN A MANHOLE, THE CONTRACTOR SHALL UNCOVER THE EXISTING SEWER TO ALLOW ANY ADJUSTMENTS IN LINE AND GRADE TO BE MADE BEFORE PIPE IS LAID.
2. THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
3. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN APPROVAL PERMITS, INCLUDING BUT NOT LIMITED TO WDNR, STATE OR LOCAL PLUMBING, WDOT, COUNTY, AND STORM WATER MANAGEMENT.
4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.
5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.
6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.
7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.

## KEY INDEX

- PROJECT LIMITS
- P/L — PROPERTY LINE
- EASE — EASEMENT LINE
- STORM MANHOLE (2 / C2.20)
- STORM CATCH BASIN WITH CURB BOX FRAME & GRATE (6 / C2.20)
- WATER MAIN TEE
- WATER MAIN VALVE
- STORM SEWER
- SAN — SANITARY SEWER
- W — WATER MAIN

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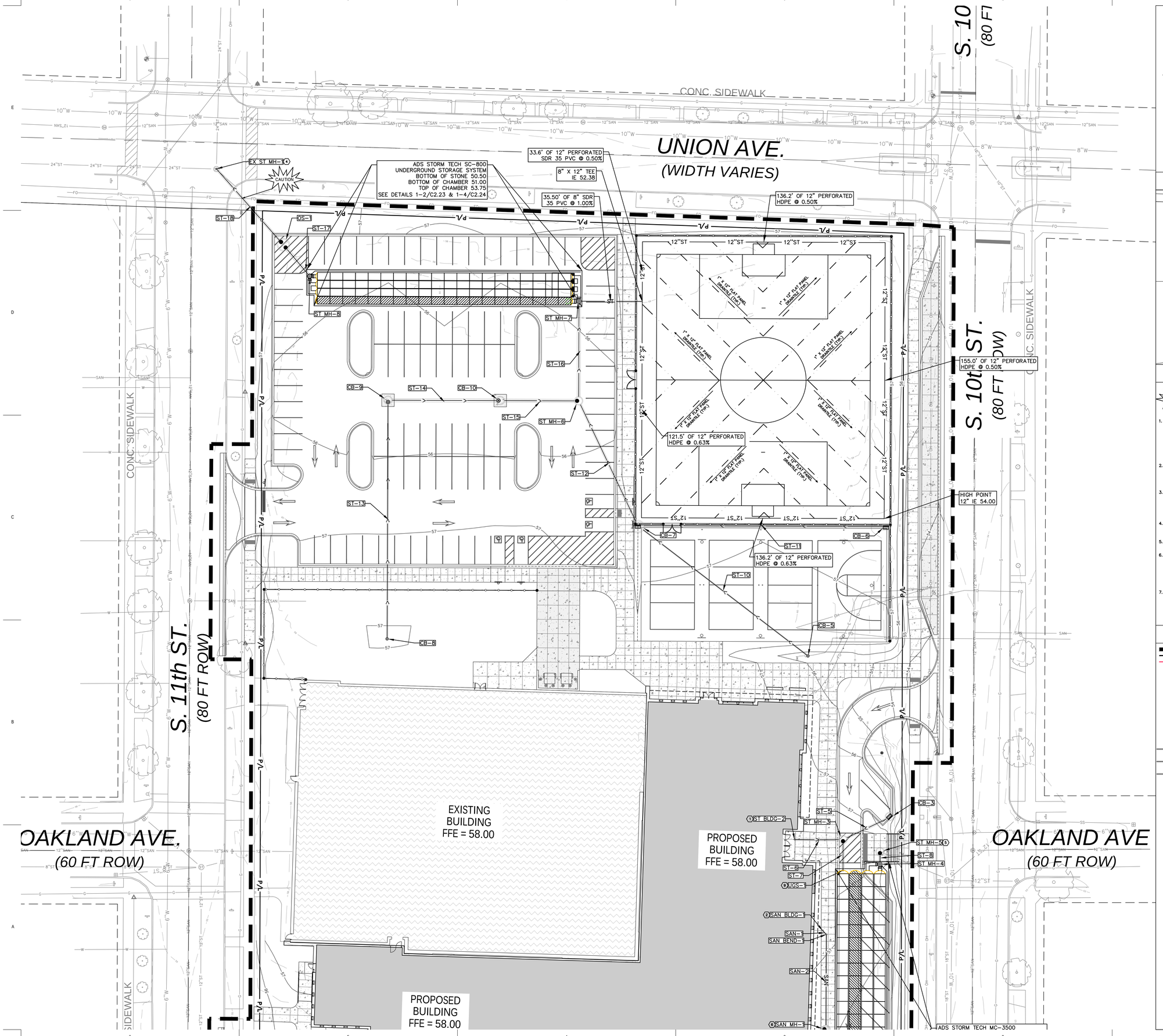
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Project Number:
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Sheet Title:
**OVERALL SITE UTILITY PLAN**

Sheet Number:
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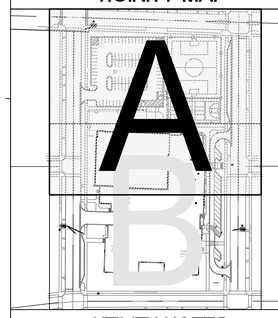
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## VICINITY MAP




## UTILITY NOTES

CAUTION

KNOWN UTILITY AND POTENTIAL CONFLICT EXIST WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO UTILITY INSTALLATION, CONTRACTOR TO EXCAVATE AND EXPOSE EXISTING UTILITIES, VERIFY LOCATIONS AND ELEVATIONS, AND CONTACT ENGINEER IF CONFLICTS EXIST WITH PROPOSED CONSTRUCTION AND EXISTING UNDERGROUND UTILITIES..

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6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.
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- STORM MANHOLE (2 / C2.20)
- STORM CATCH BASIN WITH CURB BOX FRAME & GRATE (6 / C2.20)
- WATER MAIN TEE
- WATER MAIN VALVE
- STORM SEWER
- SANITARY SEWER
- WATER MAIN

1. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF 14" STORM SEWER 5' FROM BUILDING. FIELD VERIFY EXACT LOCATION AND INVERT.
2. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF 6" SANITARY SEWER 5' FROM BUILDING. FIELD VERIFY EXACT LOCATION AND INVERT.
3. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF 6" WATER MAIN 5' FROM BUILDING. FIELD VERIFY EXACT LOCATION AND INVERT.
4. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED STORM SEWER TO EXISTING STORM STRUCTURE. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION AND INVERTS OF EXISTING STORM SEWER PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
5. SITE UTILITY CONTRACTOR TO CONNECT EXISTING STORM SEWER. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER LOCATION, SIZE, AND INVERT PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
6. SITE UTILITY CONTRACTOR TO CONNECT EXISTING SANITARY SEWER TO PROPOSED SANITARY MANHOLE. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, AND INVERT OF EXISTING SEWER PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
7. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED SANITARY SEWER TO EXISTING SANITARY MANHOLE. CONTRACTOR TO FIELD VERIFY SIZE, AND INVERT OF EXISTING SANITARY SEWER PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
8. SITE UTILITY CONTRACTOR TO CONNECT TO EXISTING WATER MAIN WITH NEW TEE PER STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN AND CITY OF SHEBOYGAN SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY EXISTING WATER MAIN SIZE, LOCATION, AND INVERT PRIOR TO CONSTRUCTION.
9. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED STORM SEWER TO UNDERGROUND STORAGE SYSTEM.

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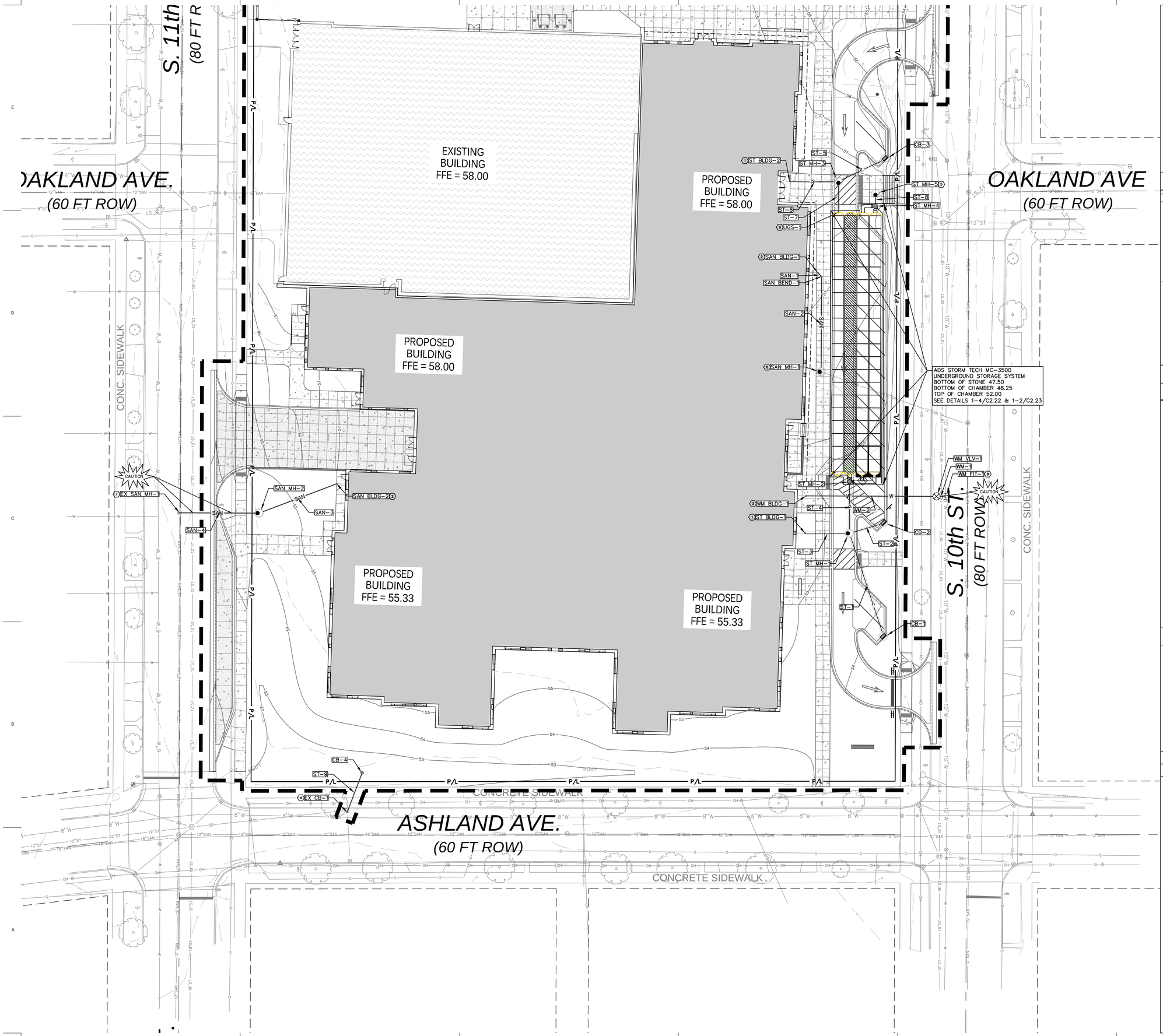
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Sheet Title:
**SITE UTILITY PLAN - AREA A**

Sheet Number:
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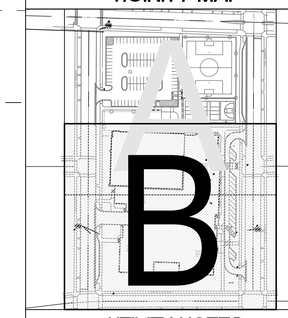

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4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.
5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.
6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.
7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.

## KEY INDEX

- PROJECT LIMITS
- P/L PROPERTY LINE
- EASE EASEMENT LINE
- STORM MANHOLE
- STORM CATCH BASIN WITH CURB BOX FRAME & GRATE
- WATER MAIN TEE
- WATER MAIN VALVE
- STORM SEWER
- SAN SANITARY SEWER
- W WATER MAIN

(2/C2.20) (6/C2.20)

1. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF 14" STORM SEWER 5' FROM BUILDING. FIELD VERIFY EXACT LOCATION AND INVERT.
2. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF 6" SANITARY SEWER 5' FROM BUILDING. FIELD VERIFY EXACT LOCATION AND INVERT.
3. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF 6" WATER MAIN 5' FROM BUILDING. FIELD VERIFY EXACT LOCATION AND INVERT.
4. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED STORM SEWER TO EXISTING STORM STRUCTURE. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION AND INVERTS OF EXISTING STORM SEWER PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
5. SITE UTILITY CONTRACTOR TO CONNECT EXISTING STORM SEWER. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER LOCATION, SIZE, AND INVERT PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
6. SITE UTILITY CONTRACTOR TO CONNECT EXISTING SANITARY SEWER TO PROPOSED SANITARY MANHOLE. CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, AND INVERT OF EXISTING SEWER PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
7. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED SANITARY SEWER TO EXISTING SANITARY MANHOLE. CONTRACTOR TO FIELD VERIFY SIZE, AND INVERT OF EXISTING SANITARY SEWER PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
8. SITE UTILITY CONTRACTOR TO CONNECT TO EXISTING WATER MAIN WITH NEW TEE PER STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN AND CITY OF SHEBOYGAN SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY EXISTING WATER MAIN SIZE, LOCATION, AND INVERT PRIOR TO CONSTRUCTION.
9. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED STORM SEWER TO UNDERGROUND STORAGE SYSTEM.

Project Title:
Addition & Renovation to:
FARNSWORTH MIDDLE SCHOOL
SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

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Issued for:
CITY OF SHEBOYGAN
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2/02/2026

Project Number:
3415

Sheet Title:
**SITE UTILITY PLAN - AREA B**

Sheet Number:
C1.52B

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## STORM SEWER STRUCTURE TABLE

| STRUCTURE NAME: | TYPE (FRAME AND GRATE): | RIM ELEVATION: | PIPES IN: | PIPES OUT | BOTTOM: | DETAIL: |
|---|---|---|---|---|---|---|
| CB-1 | 48" DIAMETER (R-3067-R) | 53.72 | | ST-1, 12" N INV = 50.72 | 49.22 | 6&10/C2.20 |
| CB-2 | 48" DIAMETER (R-3067-R) | 54.00 | | ST-2, 12" W INV = 51.00 | 49.50 | 6&10/C2.20 |
| CB-3 | 48" DIAMETER (R-3067-R) | 55.96 | | ST-5, 12" SW INV = 52.96 | 51.46 | 6&10/C2.20 |
| CB-4 | 18" NYLOPLAST DRAIN (1899CGS) | 52.19 | | ST-9, 8" S INV = 49.32 | 47.82 | 8/C2.20 |
| CB-5 | 18" NYLOPLAST DRAIN (1899CGS) | 55.40 | | ST-10, 8" NW INV = 52.73 | 51.23 | 8/C2.20 |
| CB-6 | 2' X 3' RECTANGULAR (R-3067-R) | 56.50 | | ST-11, 12" W INV = 52.80 | 51.30 | 7&10/C2.20 |
| CB-7 | 72" DIAMETER (R-3067-R) | 56.50 | ST-11, 12" E INV = 52.10<br>ST-10, 8" SE INV = 52.43 | ST-12, 12" NW INV = 52.10 | 50.60 | 6&10/C2.20 |
| CB-8 | 18" NYLOPLAST DRAIN (1899CGS) | 56.72 | | ST-13, 10" N INV = 53.65 | 52.15 | 8/C2.20 |
| CB-9 | 48" DIAMETER (R-2502-D) | 55.14 | ST-13, 10" S INV = 52.31 | ST-14, 18" E INV = 51.64 | 50.14 | 5&10/C2.20 |
| CB-10 | 48" DIAMETER (R-2502-D) | 55.14 | ST-14, 18" W INV = 51.58 | ST-15, 18" E INV = 51.58 | 50.08 | 5&10/C2.20 |
| EX CB-1 | N/A | 51.95± | EX ST, 10" S INV = 49.15±<br>ST-9, 8" N INV = 49.20 | EX ST, 10" SW INV = 49.15± | | |
| EX ST MH-1 | N/A | 56.60± | EX ST, 24" W INV = 49.20±<br>ST-18, 12" SE INV = 50.14 | EX ST, 24" N INV = 49.14± | | |
| OS-1 | 72" OUTLET STRUCTURE WITH WEIR | 56.66 | ST-17, 18" SE INV = 50.50 | ST-18, 12" NW INV = 50.50 | 49.00 | 2/C2.21 |
| ST BLDG-1 | N/A | | | ST-3, 15" E INV = 49.96 | | |
| ST BLDG-2 | N/A | | | ST-6, 15" E INV = 52.53 | | |
| ST MH-1 | 48" DIAMETER (R-1661) | 54.58 | ST-1, 12" S INV = 50.11<br>ST-3, 15" W INV = 49.71<br>ST-2, 12" E INV = 50.80 | ST-4, 15" N INV = 49.71 | 49.71 | 1/C2.20 |
| ST MH-2 | 30" NYLOPLAST DRAIN (3099CGS) | 54.55 | ST-4, 15" S INV = 49.42 | ST, 18" E INV = 48.92<br>ST, 24" N INV = 48.14 | 47.92 | 2/C2.23 |
| ST MH-3 | 48" DIAMETER (R-1661) | 57.49 | ST-6, 15" W INV = 52.26<br>ST-5, 12" NE INV = 52.67 | ST-7, 15" S INV = 50.42 | 50.42 | 1/C2.20 |
| ST MH-4 | 30" NYLOPLAST DRAIN (3099CGS) | 57.44 | ST, 18" W INV = 48.40<br>ST, 18" S INV = 48.40<br>ST, 6" SE INV = 47.50 | ST-8, 12" N INV = 47.50 | 46.00 | 2/C2.23 |
| ST MH-5 | 48" DIAMETER (R-1661) | 57.49 | ST-8, 12" S INV = 47.43 | EX ST, 12" SE INV = 47.43± | 47.43 | 1/C2.20 |
| ST MH-6 | 48" DIAMETER (R-1661) | 55.58 | ST-15, 18" W INV = 51.41<br>ST-12, 12" SE INV = 51.91 | ST-16, 18" N INV = 51.41 | 51.41 | 1/C2.20 |
| ST MH-7 | 30" NYLOPLAST DRAIN (3099CGS) | 56.19 | ST-16, 18" S INV = 51.19<br>ST, 8" E INV = 52.03 | ST, 18" N INV = 51.67<br>ST, 24" W INV = 51.19 | 49.69 | 4/C2.24 |
| ST MH-8 | 30" NYLOPLAST DRAIN (3099CGS) | 56.35 | ST, 18" E INV = 51.17<br>ST, 18" S INV = 51.17<br>ST, 6" NE INV = 47.50 | ST-17, 18" NW INV = 50.50 | 49.00 | 4/C2.24 |
| UGS-1 | N/A | | ST-7, 15" N INV = 50.25 | | | |

## WATER MAIN PIPE TABLE

| PIPE NAME: | FROM: | TO: | FROM INVERT ELEVATION: | TO INVERT ELEVATION: | LENGTH: | SLOPE: | SIZE AND MATERIAL: |
|---|---|---|---|---|---|---|---|
| WM-1 | WM FIT-1 | WM VLV-1 | 46.15 | 46.25 | 5.00' | -2.00% | 6" C900 PVC PIPE |
| WM-2 | WM VLV-1 | WM BLDG-1 | 46.25 | 48.33 | 72.84' | -2.86% | 6" C900 PVC PIPE |

## WATER MAIN FITTINGS TABLE

| STRUCTURE NAME: | TYPE: | INVERT ELEVATION: |
|---|---|---|
| WM BLDG-1 | N/A | 48.33 |
| WM FIT-1 | 6"X10" TEE | 46.15± |
| WM VLV-1 | 6" GATE VALVE W/VALVE BOX | 46.25 |

## STORM SEWER PIPE TABLE

| PIPE NAME: | FROM: | TO: | UPSTREAM INVERT ELEVATION: | DOWNSTREAM INVERT ELEVATION: | LENGTH: | SLOPE: | SIZE AND MATERIAL: | GPM: |
|---|---|---|---|---|---|---|---|---|
| ST-1 | CB-1 | ST MH-1 | 50.72 | 50.11 | 61.02' | 1.00% | 12" DUAL WALL HDPE | |
| ST-2 | CB-2 | ST MH-1 | 51.00 | 50.80 | 20.28' | 1.00% | 12" DUAL WALL HDPE | |
| ST-3 | ST BLDG-1 | ST MH-1 | 49.96 | 49.71 | 24.81' | 1.00% | 14" SCH 40 PVC | |
| ST-4 | ST MH-1 | ST MH-2 | 49.71 | 49.42 | 28.84' | 1.00% | 15" DUAL WALL HDPE | |
| ST-5 | CB-3 | ST MH-3 | 52.96 | 52.67 | 29.22' | 1.00% | 12" DUAL WALL HDPE | |
| ST-6 | ST BLDG-2 | ST MH-3 | 52.53 | 52.26 | 27.17' | 1.00% | 14" SCH 40 PVC | |
| ST-7 | ST MH-3 | UGS-1 | 50.42 | 50.25 | 17.29' | 1.00% | 15" DUAL WALL HDPE | |
| ST-8 | ST MH-4 | ST MH-5 | 47.50 | 47.43 | 7.11' | 1.00% | 12" DUAL WALL HDPE | |
| ST-9 | CB-4 | EX CB-1 | 49.32 | 49.20 | 23.58' | 0.50% | 8" SDR 35 PVC | |
| ST-10 | CB-5 | CB-7 | 52.73 | 52.43 | 120.25' | 0.25% | 8" SDR 35 PVC | |
| ST-11 | CB-6 | CB-7 | 52.80 | 52.10 | 139.21' | 0.50% | 12" DUAL WALL HDPE | |
| ST-12 | CB-7 | ST MH-6 | 52.10 | 51.91 | 77.60' | 0.25% | 12" DUAL WALL HDPE | |
| ST-13 | CB-8 | CB-9 | 53.65 | 52.31 | 134.02' | 1.00% | 10" SDR 35 PVC | |
| ST-14 | CB-9 | CB-10 | 51.64 | 51.58 | 63.00' | 0.10% | 18" DUAL WALL HDPE | |
| ST-15 | CB-10 | ST MH-6 | 51.58 | 51.41 | 44.00' | 0.39% | 18" DUAL WALL HDPE | |
| ST-16 | ST MH-6 | ST MH-7 | 51.41 | 51.19 | 55.95' | 0.40% | 18" DUAL WALL HDPE | |
| ST-17 | ST MH-8 | OS-1 | 50.50 | 50.50 | 22.98' | 0.00% | 18" DUAL WALL HDPE | |
| ST-18 | OS-1 | EX ST MH-1 | 50.50 | 50.14 | 56.84' | 0.63% | 12" DUAL WALL HDPE | |

## SANITARY SEWER STRUCTURE TABLE

| STRUCTURE NAME: | TYPE (FRAME AND GRATE): | RIM ELEVATION: | PIPES IN: | PIPES OUT | BOTTOM: | DETAIL: |
|---|---|---|---|---|---|---|
| EX SAN MH-1 | N/A | 54.17± | EX SAN, 12" N INV = 46.16±<br>SAN-4, 6" E INV = 47.63 | EX SAN, 12" S INV = 46.09± | 46.09± | |
| SAN BEND-1 | 45 DEGREE BEND | | SAN-1, 6" NW INV = 50.19 | SAN-2, 6" S INV = 50.19 | | |
| SAN BLDG-1 | N/A | | | SAN-1, 6" SE INV = 50.25 | | |
| SAN BLDG-2 | N/A | | | SAN-3, 6" W INV = 48.79 | | |
| SAN MH-1 | 48" DIAMETER (R-1661) | 56.48 | SAN-2, 6" N INV = 49.12 | EX SAN, 12" SE INV = 47.22± | 47.22± | 2/C2.20 |
| SAN MH-2 | 48" DIAMETER (R-1661) | 54.68 | SAN-3, 6" E INV = 48.33 | SAN-4, 6" W INV = 48.08 | 48.08 | 2/C2.20 |

## SANITARY SEWER PIPE TABLE

| PIPE NAME: | FROM: | TO: | UPSTREAM INVERT ELEVATION: | DOWNSTREAM INVERT ELEVATION: | LENGTH: | SLOPE: | SIZE AND MATERIAL: | DFU: |
|---|---|---|---|---|---|---|---|---|
| SAN-1 | SAN BLDG-1 | SAN BEND-1 | 50.25 | 50.19 | 3.00' | 2.00% | 6" SDR 35 PVC | |
| SAN-2 | SAN BEND-1 | SAN MH-1 | 50.19 | 49.12 | 53.23' | 2.01% | 6" SDR 35 PVC | |
| SAN-3 | SAN BLDG-2 | SAN MH-2 | 48.79 | 48.33 | 46.29' | 1.00% | 6" SDR 35 PVC | |
| SAN-4 | SAN MH-2 | EX SAN MH-1 | 48.08 | 47.63 | 44.52' | 1.00% | 6" SDR 35 PVC | |


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Project Title:
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SHEBOYGAN, WI 53081

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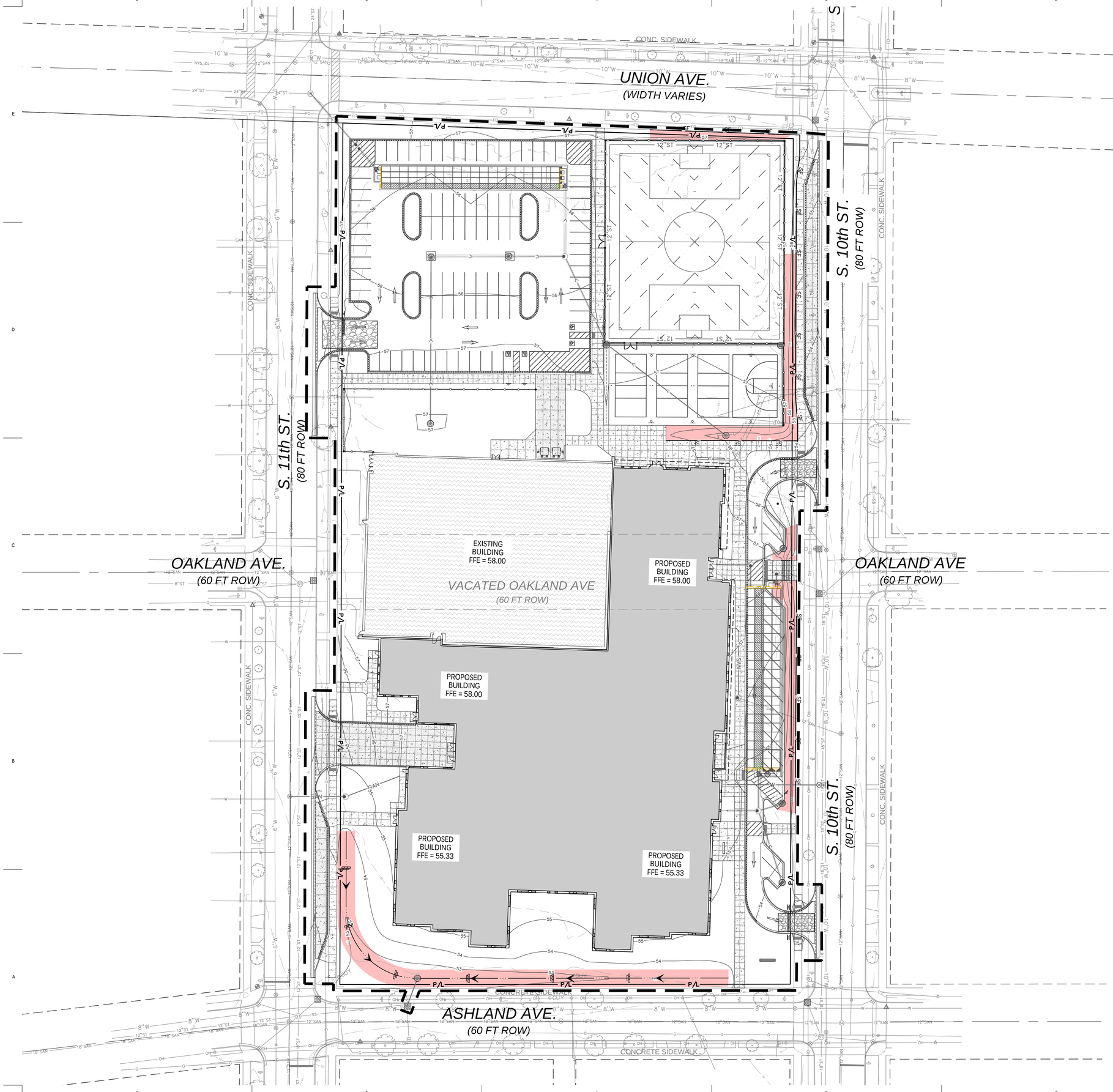
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Project Number:
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Sheet Title:
**SITE UTILITY TABLES**

Sheet Number:
1.53C

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Scale: 0 15 30 60

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## EROSION NOTES

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS AND WPDES PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOOD PLAINS UNLESS IDENTIFIED IN THE PLANS.

## POINTS OF CONTACT


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---- – PROJECT MANAGER
---- CONSTRUCTION
---- STREET
---, WI ----
PHONE: (----) ----------


## KEY INDEX

- PROJECT LIMITS
- P/L — PROPERTY LINE
- EASE — EASEMENT LINE
- INSTALL EROSION MAT ON ALL SLOPES GREATER THAN 4:1 AND ALL DRAINAGE SWALES
- USE CLASS I, TYPE A FROM WSDOT PRODUCT APPROVED LIST FOR ALL SIDE SLOPES
- USE CLASS II, TYPE B FOR ALL DRAINAGE SWALES. INSTALL EROSION MAT ON THE BOTTOM OF AND A MINIMUM OF 2 FEET VERTICALLY UP THE SIDE SLOPES OF ALL DRAINAGE SWALES. CLASS I TYPE A MAY BE USED FOR THE REMAINDER OF THE SIDE SLOPES IN DRAINAGE SWALES EXCEEDING 2 FEET VERTICALLY.
- SF — FILTER FABRIC FENCE — 1 C2.10
- STONE TRACKING PAD REQUIRED. LOCATION TO BE DETERMINED BY SELECTED CONTRACTOR'S APPROVED WORK PLAN. — 2 C2.10
- TRIANGULAR SILT DIKES — 3 C2.10
- DESIGNATES PROPOSED INLETS THAT MUST BE PROTECTED AFTER THEY HAVE BEEN CONSTRUCTED. — 4 C2.10
- DESIGNATES EXISTING INLETS THAT MUST BE PROTECTED — 4 C2.10

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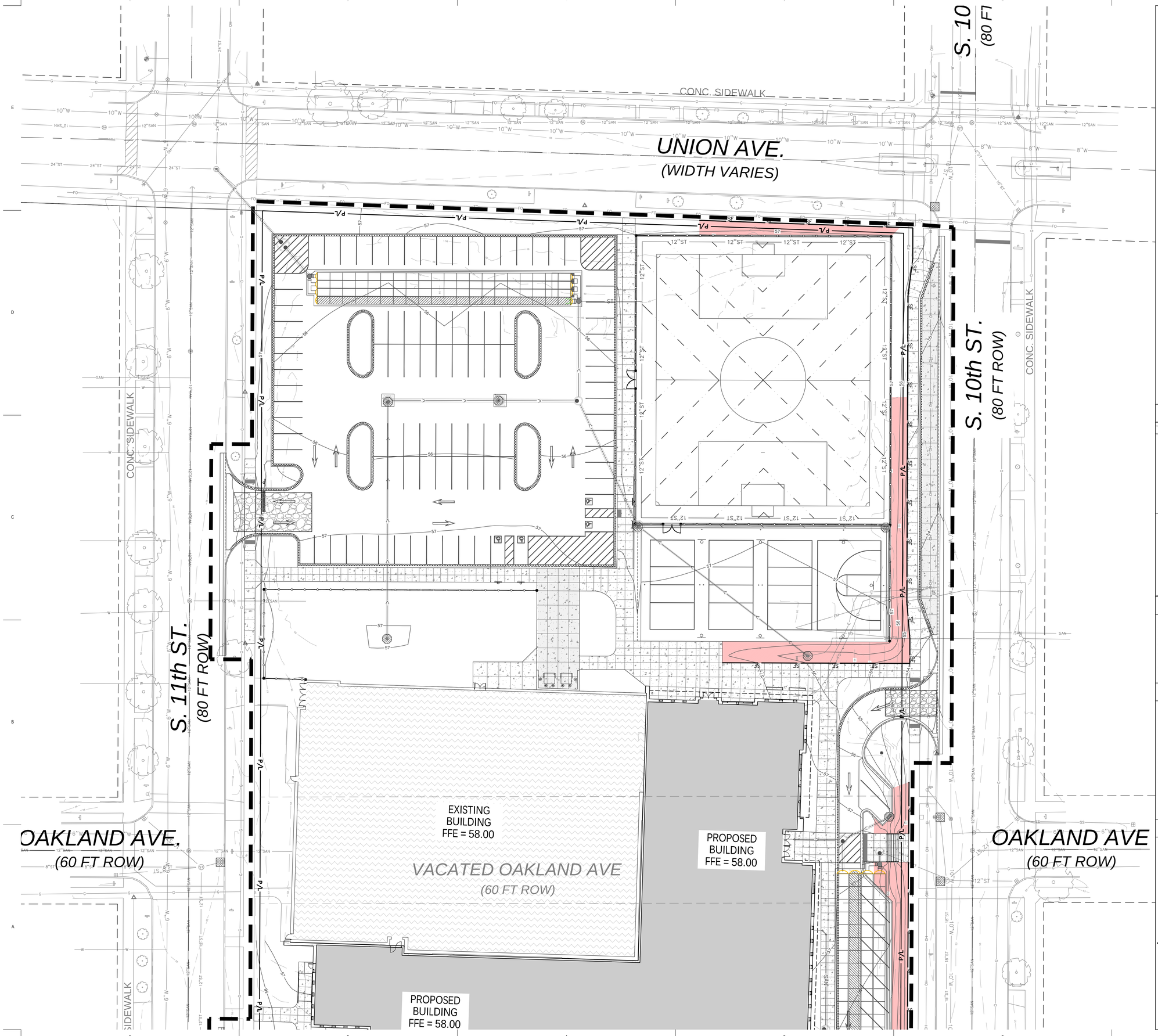
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**OVERALL SITE EROSION CONTROL PLAN**

Sheet Number:
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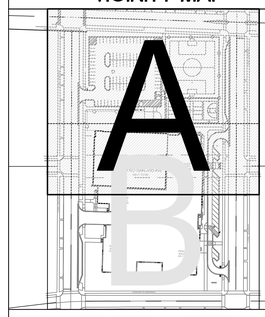
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## VICINITY MAP




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## POINTS OF CONTACT


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PHONE: (----) ----------


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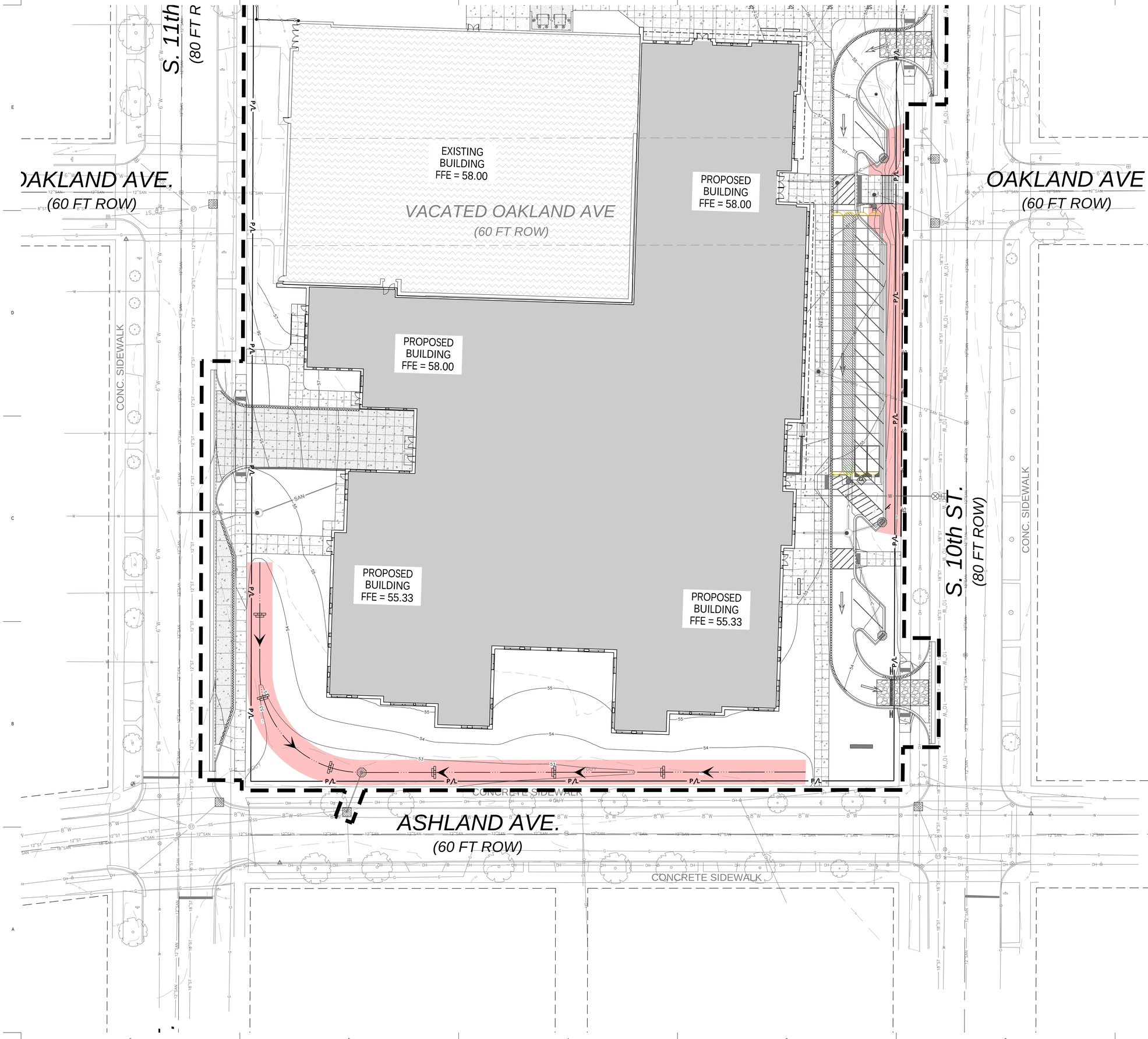
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**SITE EROSION CONTROL PLAN - AREA A**

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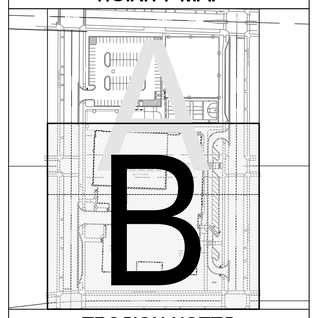
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## KEY INDEX

- PROJECT LIMITS
- P/L — PROPERTY LINE
- EASE — EASEMENT LINE
- INSTALL EROSION MAT ON ALL SLOPES GREATER THAN 4:1 AND ALL DRAINAGE SWALES
  USE CLASS I, TYPE A FROM WSDOT PRODUCT APPROVED LIST FOR ALL SIDE SLOPES
  USE CLASS II, TYPE B FOR ALL DRAINAGE SWALES. INSTALL EROSION MAT ON THE BOTTOM OF AND A MINIMUM OF 2 FEET VERTICALLY UP THE SIDE SLOPES OF ALL DRAINAGE SWALES. CLASS I, TYPE A MAY BE USED FOR THE REMAINDER OF THE SIDE SLOPES IN DRAINAGE SWALES EXCEEDING 2 FEET VERTICALLY.
- SF — FILTER FABRIC FENCE — 1 / C2.10
- STONE TRACKING PAD REQUIRED, LOCATION TO BE DETERMINED BY SELECTED CONTRACTOR'S APPROVED WORK PLAN. — 2 / C2.10
- TRIANGULAR SILT DIKES — 3 / C2.10
- DESIGNATES PROPOSED INLETS THAT MUST BE PROTECTED AFTER THEY HAVE BEEN CONSTRUCTED. — 4 / C2.10
- DESIGNATES EXISTING INLETS THAT MUST BE PROTECTED — 4 / C2.10

Project Title:
Addition & Renovation to:
FARNSWORTH MIDDLE SCHOOL
SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

REVISIONS:

| | DATE | DESCRIPTION |
|---|---|---|

Issued for:
CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
3415

Sheet Title:
**SITE EROSION CONTROL PLAN - AREA B**

Sheet Number:
C1.62B

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# EROSION CONTROL MEASURES

1. CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN AND PER THE LATEST WDNR TECHNICAL STANDARDS. TECHNICAL STANDARDS MAY BE VIEWED ONLINE AT:
http://dnr.wi.gov/topic/stormwater/standards/const_standards.htm

2. INLETS AND CATCH BASINS SHALL BE PROTECTED WITH INLET FILTERS THAT ARE PHASED IN WITH CONSTRUCTION TO REDUCE SEDIMENT FROM ENTERING THESE AREAS PER WDNR TECHNICAL STANDARD 1060 AS FOLLOWS:

ALL FABRIC BARRIERS SELECTED FOR INLET/CATCH BASIN PROTECTION DEVICES SHALL BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEOTEXTILE FABRIC, TYPE FF IN THE CURRENT EDITION OF THE WisDOT PRODUCT ACCEPTABILITY LIST, TO OBTAIN THE PAL, PLEASE REFER TO THIS WEBSITE:
http://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/tools/pal/pal-1page.pdf

A. INLET PROTECTION SHALL BE AT A MINIMUM INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 1/2 INCH OR GREATER DURING A 24-HOUR PERIOD.

B. PLACEMENT OF SPOIL MATERIAL, DEBRIS, SOILS, ETC. ON TOP OF INLETS/CATCH BASINS, EVEN IF TEMPORARY, IS STRICTLY DISCOURAGED AND PROHIBITED.

C. SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/3 TO ½ THE DESIGN DEPTH OF THE DEVICE FOR TYPES A-C. WHEN SEDIMENT IS WITHIN 6" OF THE BOTTOM OF THE OVERFLOW HOLE FOR TYPE D, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING PER MANUFACTURER'S SPECIFICATIONS. ALL SEDIMENT COLLECTED SHALL BE PROPERLY DISPOSED OF TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.

D. DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLETS/CATCH BASINS AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET/CATCH BASIN SHALL BE REMOVED AND PROPERLY DISPOSED OF PER NOTE C ABOVE.

E. INLET FILTERS MAY BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION, HAULING OR MOVEMENT OF CONSTRUCTION EQUIPMENT THROUGHOUT THE SITE, AND ONCE THE SITE IS ADEQUATELY STABILIZED, UNLESS AS OTHERWISE NOTIFIED BY THE WDNR.

3. A TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO REDUCE OFF-SITE SEDIMENTATION BY ELIMINATING THE TRACKING OF SEDIMENT FROM THE SITE PER WDNR TECHNICAL STANDARD 1057 AS FOLLOWS:

A. AGGREGATE USED FOR TRACKING PADS SHALL BE 3 TO 6 INCH CLEAR OR WASHED STONE. ALL MATERIAL TO BE RETAINED BY 3 INCH SIEVE.

B. THE AGGREGATE SHALL BE PLACED IN A LAYER OF AT LEAST 12 INCHES THICK. ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED, TRACKING PADS WILL BE UNDERLAIN WITH WisDOT TYPE R GEOTEXTILE FABRIC.

C. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT (MIN. IS FEET WIDE) AND BE AT LEAST 50 FEET LONG.

D. VEHICLES TRAVELING ACROSS THE TRACKING PAD SHALL MAINTAIN A SLOW CONSTANT SPEED.

E. ANY SEDIMENT OR ROCK ACCUMULATION ONTO LOCAL ROADWAYS SHALL BE REMOVED BY STREET CLEANING, NOT FLUSHING BEFORE THE END OF EACH WORKING DAY.

F. THE TRACKING PAD SHALL, AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 1/2 INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD.

G. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED AT A MINIMUM OF 12" BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.

4. THE CONSTRUCTION SITE PERIMETER AND TOPSOIL STOCKPILE AREA SHALL BE PROTECTED WITH SILT FENCE AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO INTERCEPT AND REDUCE THE FLOW OF SEDIMENT-LADEN SHEET FLOW RUNOFF FROM THE CONSTRUCTION SITE PER WDNR TECHNICAL STANDARD 1056 AS FOLLOWS:

A. SILT FENCE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE AS SHOWN ON THE PLAN SHEET.

B. INSTALLED SILT FENCE SHALL BE A MINIMUM 14 INCHES HIGH AND SHALL NOT EXCEED 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.

C. SILT FENCE SHALL BE SUPPORTED BY EITHER STEEL OR WOOD SUPPORT POSTS.

D. THE MAXIMUM SPACING OF POSTS FOR NONWOVEN SILT FENCE SHALL BE 3 FEET OR FOR WOVEN FABRIC 8 FEET.

E. SILT FENCE SHALL HAVE A SUPPORT CORD AT THE TOP OF THE FENCE.

F. WHERE JOINTS ARE NEEDED, EACH END OF THE FABRIC SHALL BE SECURELY FASTENED TO A POST. THE POSTS SHALL BE WRAPPED AROUND EACH OTHER TO PRODUCE A STABLE AND SECURE JOINT OR SHALL BE OVERLAPPED THE DISTANCE BETWEEN POSTS.

G. A MINIMUM OF 20 INCHES OF THE POSTS SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.

H. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4 INCH WIDE BY 6 INCH DEEP TRENCH, OR 6 INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. THE TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED ANY WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.

I. ON THE TERMINAL ENDS OF THE SILT FENCE THE FABRIC SHALL BE WRAPPED AROUND THE POST SUCH THAT THE STAPLES ARE NOT VISIBLE.

J. GEOTEXTILE FABRIC SPECIFICATIONS SHALL MEET VALUES ESTABLISHED IN TECHNICAL STANDARD 1056.

K. SILT FENCE SHALL BE REMOVED ONCE THE SITE IS ADEQUATELY STABILIZED.

L. WHEN PLACING SILT FENCE NEAR TREES, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE ROOT SYSTEM BY AVOIDING COMPACTION AND ROOT CUTTING WITHIN A RADIUS OF 1.5 FEET MULTIPLIED BY THE INCH DIAMETER OF THE TREE.

M. THE CONTRACTOR MAY FURTHER STRENGTHEN THE SILT FENCE BY USING HAY BALES ON THE DOWN SLOPE SIDE AS NEEDED.

N. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 1/2 INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD.

O. DAMAGED OR DECOMPOSED SILT FENCE, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR REPLACED.

P. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH 1/2 THE HEIGHT OF THE FENCE TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.

5. SEEDING AND MULCHING TECHNIQUES SHALL BE USED ON AREAS OF EXPOSED SOIL WHERE THE ESTABLISHMENT OF VEGETATION IS DESIRED. TEMPORARY SEEDING APPLIES TO DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND-DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 CALENDAR DAYS, REQUIRING VEGETATIVE COVER FOR LESS THAN ONE YEAR. SEED AND MULCH SHALL BE UTILIZED THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH TEMPORARY VEGETATION TO HELP REDUCE EROSION PER WDNR TECHNICAL STANDARDS 1059 AND 1058 RESPECTIVELY AS FOLLOWS:

A. TEMPORARY SEEDING REQUIRES A SEEDBED OF LOOSE SOIL TO A MINIMUM DEPTH OF 2 INCHES.

B. FERTILIZER APPLICATION IS NOT GENERALLY REQUIRED FOR TEMPORARY SEEDING. HOWEVER, ANY APPLICATION OF FERTILIZER OR LIME SHALL BE BASED ON SOIL TESTING.

C. THE SOIL SHALL HAVE A PH RANGE OF 5.5 TO 8.0.

D. ALL SEED SHALL CONFORM TO THE REQUIREMENTS OF THE WISCONSIN STATE STATUTES AND OF THE ADMINISTRATIVE CODE CHAPTER ATCP 20.01 REGARDING NOXIOUS WEED SEED CONTENT AND LABELING.

E. SEED SHALL NOT BE USED LATER THAN ONE YEAR AFTER THE TEST DATE ON THE LABEL.

F. IN THE SUMMER-SPRING, CONTRACTOR SHALL USE OATS APPLIED AT 131 LBS/ACRE FOR TEMPORARY SEEDING PURPOSES. IN THE FALL THE CONTRACTOR SHALL USE ANNUAL RYEGRASS APPLIED AT 80 LBS/ACRE OR WINTER WHEAT OR CEREAL RYE APPLIED AT 131 LBS/ACRE. THE CONTRACTOR SHALL USE STRAW MULCH APPLIED AT 1.5 TONS/ACRE. DORMANT SEED SHALL BE USED WHEN SOIL TEMPERATURE IS CONSISTENTLY BELOW 53 DEGREES FAHRENHEIT (TYPICALLY NOV. 1 UNTIL SNOW COVER ANNUALLY). NEVER PLACE SEED ON TOP OF SNOW. IF COVER IS NEEDED AFTER SNOW FALL, CONTRACTOR MAY CHOOSE TO USE A DRY, NONTOXIC TYPE B SOIL STABILIZER PER MANUFACTURER'S SPECIFICATIONS AS REQUIRED BY THE WDNR.

G. SEEDING SHALL NOT TAKE PLACE WHEN THE SOIL IS TOO WET.

H. CONTRACTOR MAY CONSIDER WATERING TO HELP ESTABLISH THE SEED. WATER APPLICATION RATES SHALL BE CONTROLLED TO HELP PREVENT RUNOFF AND EROSION.

I. DURING CONSTRUCTION, AREAS THAT HAVE BEEN SEEDED AND MULCHED SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES ½ INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD. INSPECT WEEKLY DURING THE GROWING SEASON UNTIL VEGETATION IS DENSELY ESTABLISHED OR THE SOD IS LAID. REPAIR AND RESEED AREAS THAT HAVE EROSION DAMAGE AS NECESSARY.

J. CONTRACTOR IS TO LIMIT VEHICLE TRAFFIC AND OTHER FORMS OF COMPACTION IN AREAS THAT ARE SEEDED AS MUCH AS POSSIBLE. RE-SEED DRIVEN OVER AREAS AS NEEDED.

K. MULCH SHOULD BE PLACED WITHIN 24 HOURS OF SEEDING.

L. MULCHING OPERATIONS SHALL NOT TAKE PLACE DURING PERIODS OF EXCESSIVELY HIGH WINDS THAT WOULD PRECLUDE THE PROPER PLACEMENT OF MULCH.

M. MULCH THAT IS DISPLACED SHALL BE REAPPLIED AND PROPERLY ANCHORED. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION TO SITE CONDITIONS.

N. WHEN CHANNEL EROSION MAT IS USED WITHIN CONSTRUCTION SITE DIVERSION AREAS, TECHNICAL STANDARDS 1053 AND 1066 SHALL BE FOLLOWED.

O. WHEN NON-CHANNEL EROSION MAT IS USED TECHNICAL STANDARD 1052 SHALL BE FOLLOWED.

P. DEPENDING ON DURATION OF CONSTRUCTION, THE CONTRACTOR MAY NEED TO RE-SEED AND RE-STABILIZE THE TOPSOIL STOCKPILE AS NECESSARY TO DISCOURAGE SEDIMENT AND EROSION.

6. A COPY OF EROSION CONTROL INSPECTION REPORTS AND THE APPROVED EROSION CONTROL PLANS SHALL BE KEPT ON SITE.

7. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL PRACTICES BY THE END OF EACH WORKDAY.

8. LOCAL ROADS SHALL BE CLEAN BY THE END OF EACH WORKDAY. CONTRACTOR SHALL HAVE LOCAL ROADS SWEPT WHERE SEDIMENT ACCUMULATES.

# EROSION CONTROL OPERATION SEQUENCE + SCHEDULE

AFTER BIDS ARE RECEIVED AND A MASS GRADING CONTRACTOR IS SELECTED, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH ALL RELEVANT PARTIES IN ATTENDANCE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SILT FENCES, SEEDING, EROSION MATTING, AND OTHER EROSION CONTROL MEASURES. GENERAL CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING, OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 1/2 INCH OR GREATER. IN ADDITION, THE ACTIVE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION, AND WEATHER CONDITIONS IN A DAILY LOG BOOK.

ALL REGULATORY PERMITS, PROJECT PLANS, AND INSPECTION LOGS SHALL BE KEPT ON SITE IN AN ACCESSIBLE LOCATION, SUCH AS A MAILBOX, AVAILABLE TO REGULATORY AGENCIES UPON REQUEST.

CONTRACTORS ARE TO MAINTAIN THE CONSTRUCTION SITE IN A NEAT AND TIDY MANNER FOR THE DURATION OF THE PROJECT.

**THE TIMING AND SEQUENCE OF CONSTRUCTION IS SCHEDULED AS FOLLOWS:**

1. OBTAIN PLAN APPROVAL FROM THE CITY OF SHEBOYGAN, AND ALL APPLICABLE PERMITS, INCLUDING EROSION CONTROL PERMIT.
2. CONSTRUCTION IS SCHEDULED TO BEGIN IN SPRING/SUMMER 2026, DEPENDING ON WEATHER & GROUND CONDITIONS.
3. A GRAVEL TRACKING PAD UNDERLAIN WITH WISDOT TYPE R GEOTEXTILE FABRIC SHALL BE INSTALLED AS SHOWN ON THE PLANS. IF INDICATED ON PLANS, INSTALL CONSTRUCTION FENCE AND ANY TEMPORARY TRAFFIC CONTROLS.
4. SILT FENCE, INLET FILTER PROTECTION, AND TRIANGULAR SILT DIKES SHALL BE INSTALLED AS SHOWN ON THE PLANS, AND INSPECTED PRIOR TO COMMENCING OF ANY LAND DISTURBING ACTIVITIES PER PROJECT PLANS AND DETAILS. SEDIMENT DEPOSITS WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN THEY REACH A DEPTH OF 1/2 FENCE HEIGHT.
5. SITE DEMOLITION OF PAVEMENT, SIDEWALKS, ETC. WILL OCCUR AFTER ALL EROSION CONTROL MEASURES ARE IN PLACE.
6. CONSTRUCTION OF THE BUILDING, STARTING WITH THE FOUNDATION, WILL BEGIN IMMEDIATELY AFTER THE SITE DEMOLITION IS COMPLETE IN THE BUILDING PAD AREA.
7. TOPSOIL STRIPPING AND ROUGH GRADING WILL FOLLOW. TOPSOIL STOCKPILES WILL BE LOCATED AS SHOWN ON THE PLANS AND BE STABILIZED WITHIN 7 DAYS OF LAY UP. STOCKPILES WILL BE USED FOR FINAL LANDSCAPING. REMAINING STOCKPILES WILL BE REMOVED FROM THE SITE.
8. UTILITY INSTALLATION WILL OCCUR NEXT AND CONTINUE UNTIL ALL THE UTILITIES ARE INSTALLED.
9. AFTER ROUGH GRADING IS COMPLETE IN HARD SURFACE AREAS SUCH AS ROADWAYS, PARKING LOTS, AND BUILDINGS, THE REQUIRED THICKNESS OF DENSE GRADED BASE COURSE, PER THE PROJECT PLANS AND DETAILS WILL BE APPLIED FOR STABILIZATION.
10. AFTER ROUGH GRADING IS COMPLETE OUTSIDE OF HARD SURFACE AREAS, THE TOPSOIL WILL BE REAPPLIED AND THE LANDSCAPE CONTRACTOR WILL COMPLETE SEEDING/SODDING/FERTILIZING/MULCHING AND INSTALL EROSION MATTING AS PER APPROVED PLANS AND SPECIFICATIONS.
11. FINAL SITE STABILIZATION IS ANTICIPATED FOLLOWING THE COMPLETION OF GRADING ACTIVITIES PER WDNR TECHNICAL STANDARD 1059. IF SITE STABILIZATION CANNOT BE COMPLETED BY OCTOBER 15, THEN THE USE OF ANIONIC POLYACRYLAMIDE CONFORMING TO WDNR TECHNICAL STANDARD 1050 SHALL BE USED. IN ADDITION, ALL SLOPES OF GREATER THAN 20% MUST ADHERE TO THE SCHEDULE IN TABLE 1 BELOW.
12. AFTER ALL TOPSOIL HAS BEEN REAPPLIED AND STABILIZATION IS UNDERWAY, ROADWAY, PARKING LOT, AND SIDEWALK SURFACE MATERIAL (I.E. ASPHALT & CONCRETE) WILL BE APPLIED PER PROJECT PLANS AND SPECIFICATIONS.
13. AFTER THE SITE HAS BEEN STABILIZED AND THE SEDIMENT BASIN IS NO LONGER NEEDED, THE ACCUMULATED SEDIMENT SHALL BE DREDGED OUT OF THE FOOTPRINT OF THE BIO-RETENTION BASIN AND DISPOSED OF. FOLLOWING DREDGING ACTIVITIES, FULL CONSTRUCTION OF THE BIO-RETENTION BASINSHALL BE COMPLETED, INCLUDING INSTALLATION OF THE DRAINTILE, CLEAR STONE AND ENGINEERED SOIL PER THE PROJECT PLANS AND DETAILS.
14. THE GENERAL CONTRACTOR WILL REQUEST A FINAL INSPECTION BY THE CITY. UPON APPROVAL, ALL SILT FENCES, INLET FILTER PROTECTION, AND TRIANGULAR SILT DIKES SHALL BE REMOVED, AND ACCUMULATED SEDIMENT DREDGED AND PROPERLY DISPOSED OF. IN ADDITION, THE CONTRACTOR MUST ENSURE THAT THE BIO-RETENTION BASIN IS RETURNED TO THE SLOPES AND GRADES SHOWN ON THE PROJECT PLANS AND DETAILS.
15. IF REQUIRED, FINAL "AS-BUILT" SURVEYS ARE TO BE CONDUCTED BY THE OWNER AND FINAL DOCUMENTS FORWARDED TO THE CITY.
16. BARE SOIL LEFT UNDISTURBED FOR 14 CALENDAR DAYS MUST BE TEMPORARILY STABILIZED PER WDNR TECHNICAL STANDARD 1059. BY OCTOBER 15, THE SITE SHALL BE STABILIZED PER NOTE 13 ABOVE.
17. WE DO NOT ANTICIPATE THE NEED FOR WATERING WITH THIS CONSTRUCTION SCHEDULE, HOWEVER, IF ADEQUATE RAIN IS NOT EXPERIENCED WITHIN ONE WEEK AFTER INITIAL SEED GERMINATION AT ANY POINT DURING THE CONSTRUCTION PROCESS, WATER SHALL BE TRUCKED IN AND APPLIED ONCE PER WEEK.

**IF CONSTRUCTION SCHEDULES SHOULD CHANGE SIGNIFICANTLY, THIS PLAN NARRATIVE WILL BE UPDATED AND RESUBMITTED BY THE GENERAL CONTRACTOR TO THE CITY AND WDNR.**

| TABLE 1 – MAXIMUM PERIOD OF BARE SOIL FOR SLOPES GREATER THAN 20% | | |
|---|---|---|
| SLOPE AREA DRAINS TO SEDIMENT BASIN? | LAND DISTURBANCE BETWEEN SEPT. 16 AND MAY 1 | LAND DISTURBANCE BETWEEN MAY 2 AND SEPT. 15 |
| YES | 90 DAYS | 90 DAYS |
| NO | 60 DAYS | 30 DAYS |
| TABLE FROM WI DNR GUIDANCE DOC # 3800-2015-06 | | |

# DEWATERING PLAN

TO FACILITATE CONSTRUCTION AT THE PROJECT SITE, DEWATERING MAY TAKE PLACE BY THE SELECTED CONTRACTOR. CONTRACTOR TO FOLLOW THESE INSTRUCTIONS WHILE PERFORMING DEWATERING ACTIVITIES ON-SITE. IF DEWATERING IS TO TAKE PLACE AT THE SITE, IT WILL OCCUR BETWEEN STEPS 3 AND 14 OF THE EROSION CONTROL OPERATION SEQUENCE.

NOTE: THESE INSTRUCTIONS DO NOT APPLY TO WATER BEING DISCHARGED DIRECTLY TO GROUNDWATER OR KARST FEATURES OR WELL DEWATERING SYSTEMS. CONTRACTOR SHALL COORDINATE ACCORDINGLY FOR OTHER DEWATERING ACTIVITES AS DEEMED NECESSARY WITH THE WDNR.

1. THE CONTRACTOR SHALL ENSURE THAT THE DEWATERING PRACTICES CARRIED OUT MEET OR EXCEED WNDR TECHNICAL STANDARD NUMBER 1061.
2. A PAN OR OTHER CONTAINMENT DEVICE SHALL BE PLACED UNDERNEATH THE PUMP TO CAPTURE ANY SPILLS. OILS, GASOLINE, ETC. SHALL NOT BE STORED WITHIN WETLANDS, NEAR THE STORMWATER POND, OR OTHER ON-SITE WATER AREAS.
3. A TYPE 2 GEOTEXTILE BAG THAT IS NO SMALLER THAN 100 SQUARE FEET; HAS A MAXIMUM APPARENT OPENING SIZE OF 0.212 mm; HAS A GRAB TENSILE STRENGTH OF 300 LBS; MULLEN BURST OF 580 PSI; PERMEABILITY OF 0.2 CM/SEC; FABRIC WEIGHT OF 12 OZ SHALL BE USED. THE GEOTEXTILE BAG AREA AND DOWNGRADE FLOW AREA SHALL CONSIST OF VEGETATED AND UNDISTURBED SOILS.
4. POLYMER APPROVED BY THE WDNR MEETING WDNR TECHNICAL STANDARD 1051 MAY BE USED IN COMBINATION WITH THE DEWATERING BAG IF THE DEWATERING BAG IS NOT DOING AN ADEQUATE JOB ALONE OF FILTERING SEDIMENTS. THE CONTRACTOR SHALL SUPPLY TOXICITY TESTING DATA TO THE WDNR BEFORE USE ON-SITE FOR WDNR APPROVAL. POLYMER SHALL NOT BE DIRECTLY APPLIED TO SURFACE WATER. CONTRACTOR SHALL OBTAIN THE MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SELECTED POLYMER, MANUFACTURER'S INFORMATION AND WDNR USE RESTRICTIONS (SEE TECHNICAL STANDARD 1051) AND KEEP ALL THIS INFORMATION ON-SITE. CONTRACTOR SHALL ADHERE TO MANUFACTURER AND WDNR'S APPLICATION RATES FOR THE POLYMER, WITH THE WDNR'S RATE TAKING PRECEDENCE. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE POLYMER IS NOT SPILLED. SPILL KITS SHALL BE KEPT ON SITE; THE MANUFACTURER'S RECOMMENDED CLEANUP PROCEDURES SHALL BE FOLLOWED IN THE EVENT OF A SPILL.
5. A TARP MAY BE UTILIZED UNDERNEATH THE TYPE 2 GEOTEXTILE BAG AND JUST DOWN SLOPE OF THE BAG TO DISCOURAGE EROSION AND SCOUR.
6. A FLOATING SUCTION HOSE OR OTHER FLOTATION METHOD SHALL BE UTILIZED WHEN PUMPING FROM AN AREA WITH STANDING WATER TO AVOID SUCKING SEDIMENT FROM GRADE.
7. IF TURBID WATER IS LEAVING THE GEOTEXTILE BAG, THE CONTRACTOR SHALL SHUT OFF THE PUMP TO ALLOW SEDIMENTS TO SETTLE INTO THE BAG. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR DETERMINING THE SEDIMENT CAPACITY OF THE GEOTEXTILE BAG USING GOOD COMMON SENSE. SEDIMENT LEVELS CONTAINED IN THE BAG SHALL BE MONITORED TO MEASURE THE LOSS OF STORAGE CAPACITY OVER TIME. THE CONTRACTOR SHALL PROPERLY DISPOSE OF THE GEOTEXTILE BAG IN A WASTE RECEPTACLE ONCE IT IS NO LONGER USED.
8. DURING DEWATERING ACTIVITIES THE CONTRACTOR SHALL MONITOR DEWATERING PRACTICES AND KEEP A LOG OF THE FOLLOWING:
   A. DISCHARGE DURATION AND SPECIFIED PUMPING RATE.
   B. OBSERVED WATER TABLE AT TIME OF DEWATERING.
   C. MAINTENANCE ACTIVITIES
   D. NAME AND QUANTITY OF POLYMER USED. PRODUCT TYPE. APPLICATION RATE OF POLYMER IN POUNDS/ACRE FEET OF WATER. DATE AND TIME APPLIED. WEATHER CONDITIONS DURING APPLICATION. METHOD OF APPLICATION.

THIS LOG NEEDS TO BE KEPT ON SITE FOR WDNR REGULATORY REVIEW. COPIES OF THIS DOCUMENTATION SHOULD BE KEPT IN THE CONTRACTOR'S MONITORING LOG AND MADE AVAILABLE UPON REQUEST.

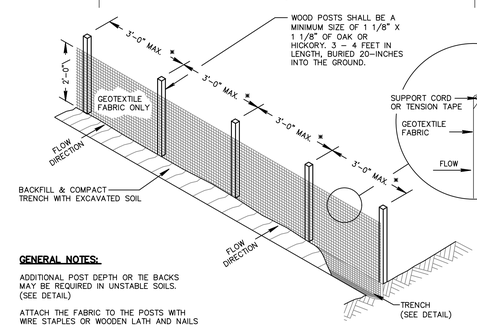
REVIEW THE FOLLOWING FOR MORE INFORMATION:

WDNR TECHNICAL STANDARD 1061 FOR DEWATERING –
http://dnr.wi.gov/topic/stormWater/documents/Dewatering_1061.pdf

WDNR TECHNICAL STANDARD 1051 FOR POLYMER –
http://dnr.wi.gov/topic/stormWater/documents/dnr1051.pdf

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS WPDES PERMIT & CHAPTER 30 PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOODPLAINS UNLESS IDENTIFIED IN THE PLANS & APPROVED BY DNR/USACOE.




**GENERAL NOTES:**

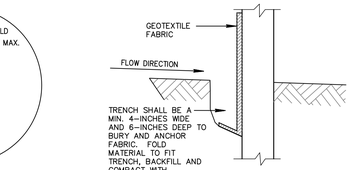
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS. (SEE DETAIL)

ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS

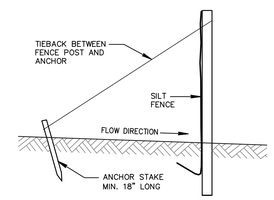
•8'–0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

IF POSSIBLE, CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING METHODS: (1)TWIST METHOD: OVERLAP END POSTS & TWIST AT LEAST 180 DEGREES. (2)HOOK METHOD: HOOK THE END OF EACH SILT FENCE LENGTH.

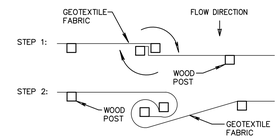
**AXONIMETRIC VIEW**




**TRENCH DETAIL**

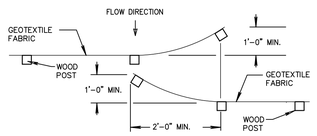



**SILT FENCE TIE BACK (WHEN ADDITIONAL SUPPORT REQUIRED)**



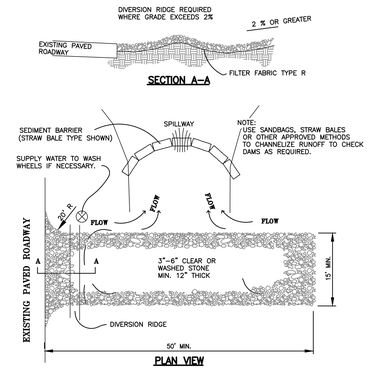

**TWIST METHOD**

**JOINING TWO LENGTHS OF SILT FENCE**




**HOOK METHOD**

1 C2.10 FILTER FABRIC SILT FENCE DETAIL
N.T.S.




**GENERAL NOTES:**

THE AGGREGATE SIZE FOR CONSTRUCTION OF THE PAD SHALL BE 3– TO 6–INCH STONE. PLACE THE GRAVEL TO THE SPECIFIC GRADE & DIMENSIONS SHOWN ON THE PLANS & GRADE TO CREATE A SMOOTH SURFACE.

THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12 INCHES. USE GEOTEXTILE FABRICS, IF NECESSARY, TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS & IN ANY CASE SHALL NOT BE LESS THAN 15 FEET WIDE.

THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.

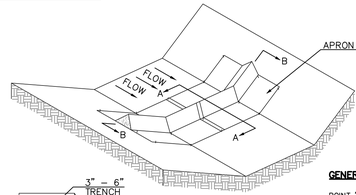
LOCATE CONSTRUCTION ENTRANCES & EXITS TO LIMIT SEDIMENT LEAVING THE SITE & TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID ENTRANCES WHICH HAVE STEEP GRADES & ENTRANCES AT CURVES IN PUBLIC ROADS.

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE & REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY SHALL BE REMOVED BY THE END OF THE WORK DAY.

PROVIDE DRAINAGE FOR A 2 YEAR – 24 HOUR EVENT TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.

WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, DESIGNATE AN AREA WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



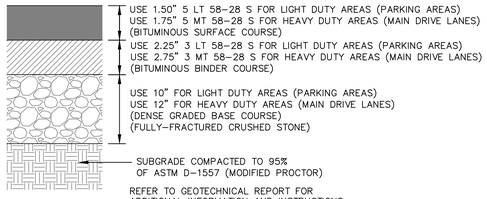

2 C2.10 STONE TRACKING CONSTRUCTION ENTRANCE
N.T.S.

**GENERAL NOTES:**

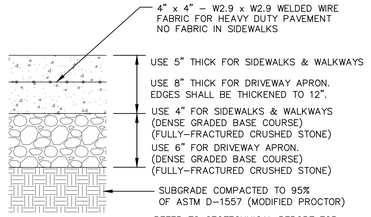
POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE & NOT AROUND THE ENDS.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP & IN THE CENTER OF THE 7" UNIT AS SHOWN ON THE DIAGRAMS.

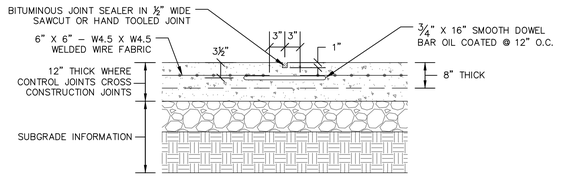
USE 10" HIGH SILT DIKE AS PER W



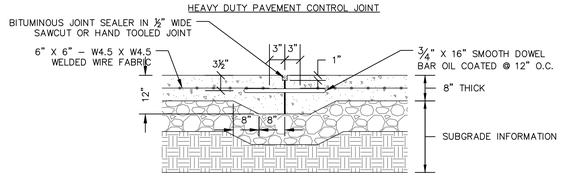

1 C2.11 **ASPHALTIC CONCRETE PAVEMENT**
N.T.S.



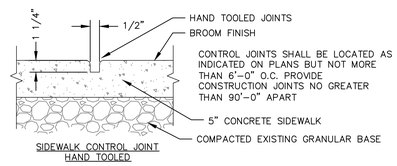

2 C2.11 **CONCRETE SIDEWALK/SLAB**
N.T.S.




HEAVY DUTY PAVEMENT CONTROL JOINT

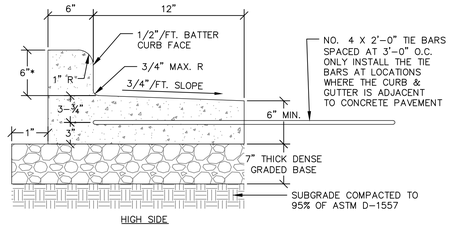



HEAVY DUTY PAVEMENT CONSTRUCTION JOINT

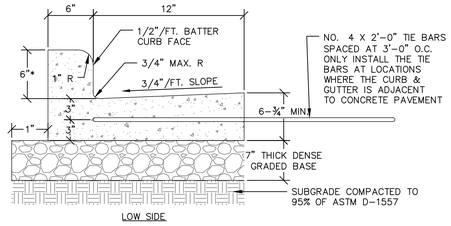



SIDEWALK CONTROL JOINT
HAND TOOLED

3 C2.11 **CONTROL & CONSTRUCTION JOINT DETAILS (TYP.)**
N.T.S.



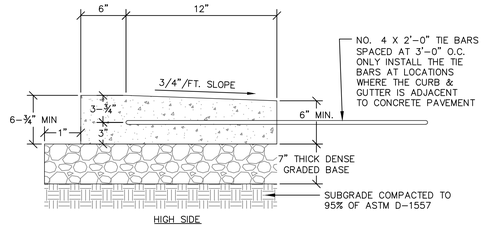

HIGH SIDE



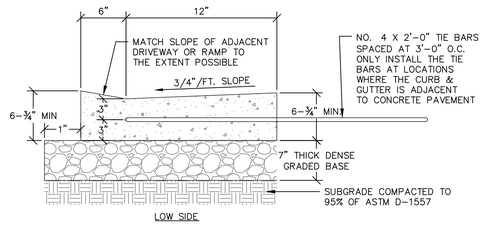

LOW SIDE

*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE. PROVIDE CONSTRUCTION JOINTS BETWEEN 10-FEET AND 300-FEET.

4 C2.11 **18-INCH BARRIER CONCRETE CURB & GUTTER**
N.T.S.




HIGH SIDE




LOW SIDE

*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE. PROVIDE CONSTRUCTION JOINTS BETWEEN 10-FEET AND 300-FEET.

5 C2.11 **18-INCH DEPRESSED CONCRETE CURB & GUTTER**
N.T.S.




HIGH-SIDE




LOW-SIDE

*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE.

6 C2.11 **24-INCH MOUNTABLE CONCRETE CURB & GUTTER**
N.T.S.




HIGH-SIDE

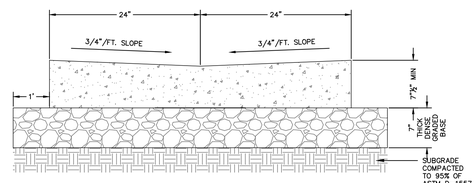



LOW-SIDE

7 C2.11 **24-INCH DEPRESSED MOUNTABLE CONCRETE CURB & GUTTER**
N.T.S.




8 C2.11 **CONCRETE CURB & GUTTER TRANSITION TO ZERO-FACE CURB**
N.T.S.




9 C2.11 **48-INCH CONCRETE DRAINAGE GUTTER**
N.T.S.




10 C2.11 **CONCRETE GUTTER PAN TRANSITION AT STORM SEWER INLETS**
N.T.S.




11 C2.11 **ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD**
N.T.S.




12 C2.11 **ACCESSIBILITY RAMP DETAIL**
N.T.S.

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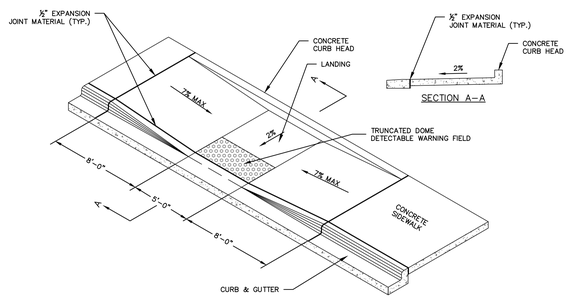
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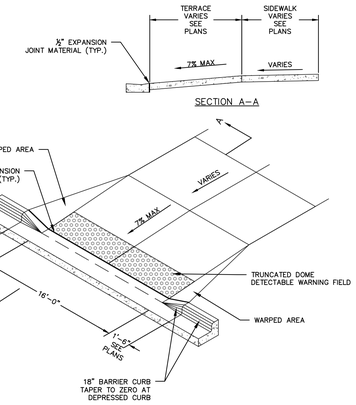
Sheet Title:
**SITE DETAILS**

Sheet Number:
C2.11

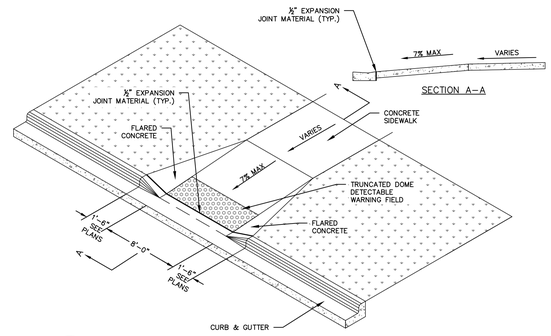
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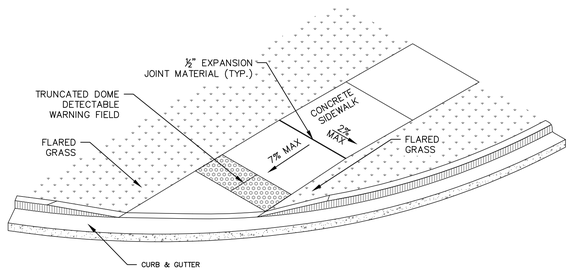

1 C2.12 ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.



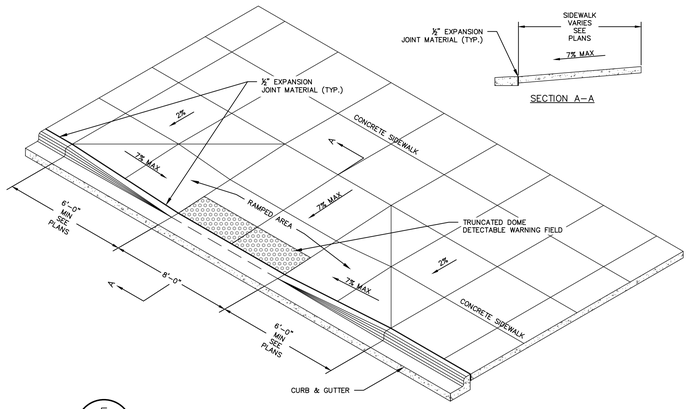

2 C2.12 ACCESSIBILITY RAMP DETAIL WITH STAMPED CONCRETE TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.



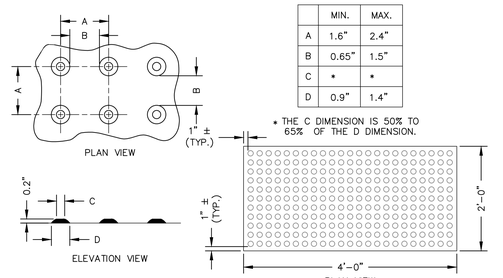

3 C2.12 ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.




4 C2.12 ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.




5 C2.12 ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.




| | MIN. | MAX. |
|---|---|---|
| A | 1.6" | 2.4" |
| B | 0.65" | 1.5" |
| C | * | * |
| D | 0.9" | 1.4" |

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

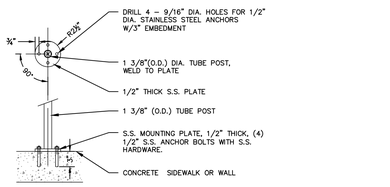
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

TRUNCATED DOME PANEL
DETECTABLE WARNING FIELD DETAIL

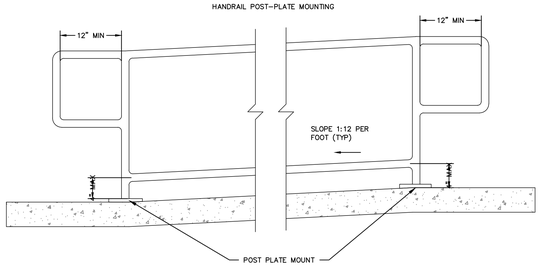
GENERAL NOTES

TRUNCATED DOME DETECTABLE WARNING FIELD SHALL CONSIST OF CAST IRON PLATES WITH NO COLOR, SUCH AS THOSE MANUFACTURED BY NEENAH FOUNDRY. PLATES SHOULD WEATHER TO A RUST COLOR OVER TIME. IF 24"x48" PLATES ARE NOT AVAILABLE, TWO 24"x24" PLATES SHALL BE USED. THE DETECTABLE WARNING FIELD SHALL BE LOCATED SO THAT IT IS CENTERED IN THE CURB RAMP WITH THE EDGE NEAREST THE BACK OF CURB A MINIMUM OF 6" AND A MAXIMUM OF 8" AWAY FROM THE BACK OF CURB. IN LOCATIONS WHERE THE RAMP IS SKEWED TO THE CURB, THE DETECTABLE WARNING FIELD IS TO RUN PERPENDICULAR TO THE DIRECTION OF TRAVEL, WITH THE EDGE NEAREST THE BACK OF CURB 4" AWAY FROM THE BACK OF CURB.

6 C2.12 CAST IRON TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.




HANDRAIL POST-PLATE MOUNTING

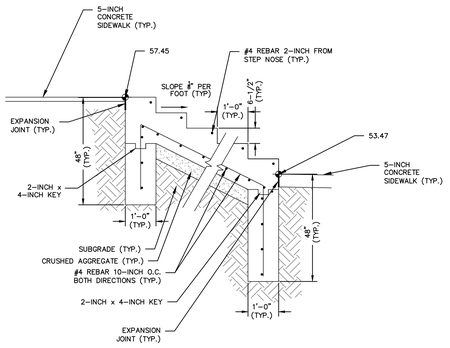



NOTES:
HANDRAIL AND POSTS TO BE CONSTRUCTED WITH 1-3/8" SCHEDULE 40 STEEL PIPE. HANDRAIL POSTS SHALL BE LOCATED WITHIN THE CONCRETE, 6" FROM THE EDGE.

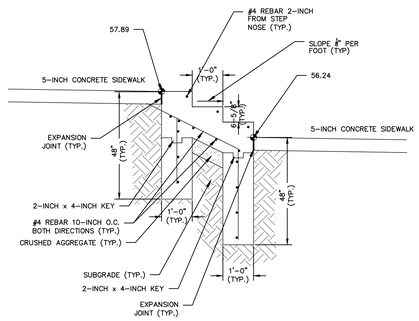
ADJUST DESIGN AS NECESSARY TO MATCH THE CONDITIONS SHOWN ON THE SITE AND GRADING PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL RAILING COMPONENTS AND CONNECTIONS.

VERIFY FIELD CONDITIONS PRIOR TO MANUFACTURING HANDRAILS. CONFIRM FINAL MATERIAL CHOICE WITH OWNER.

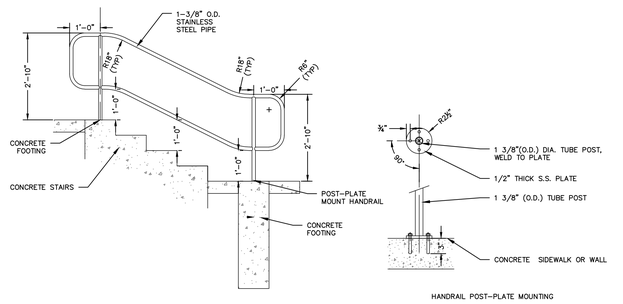
7 C2.12 STAINLESS STEEL SLOPED WALK HANDRAIL
N.T.S.




8 C2.12 NORTH CONCRETE STAIR DETAIL
N.T.S.




9 C2.12 SOUTH CONCRETE STAIR DETAIL
N.T.S.




HANDRAIL POST-PLATE MOUNTING

NOTES:
HANDRAIL AND POSTS TO BE CONSTRUCTED WITH 1-3/8" SCHEDULE 40 STEEL PIPE. HANDRAIL POSTS SHALL BE LOCATED WITHIN THE CONCRETE, 6" FROM THE EDGE.

ADJUST DESIGN AS NECESSARY TO MATCH THE CONDITIONS SHOWN ON THE SITE AND GRADING PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL RAILING COMPONENTS AND CONNECTIONS.

VERIFY FIELD CONDITIONS PRIOR TO MANUFACTURING HANDRAILS. CONFIRM FINAL MATERIAL CHOICE WITH OWNER.

10 C2.12 STAINLESS STEEL PIPE STAIR HANDRAIL
N.T.S.

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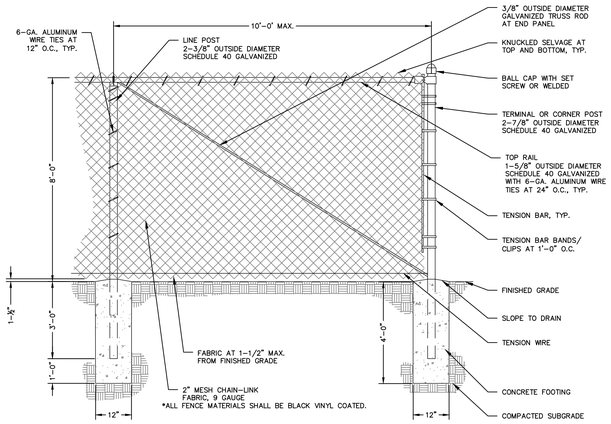
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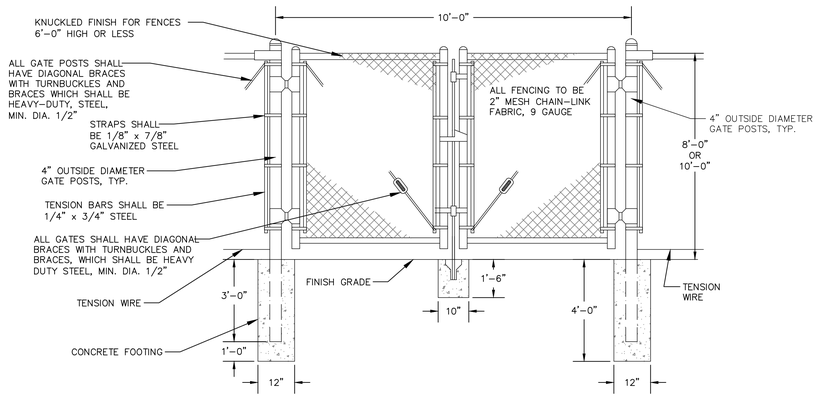
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1 / C2.13 — 8'–0" HIGH CHAIN–LINK FENCE DETAIL
N.T.S.



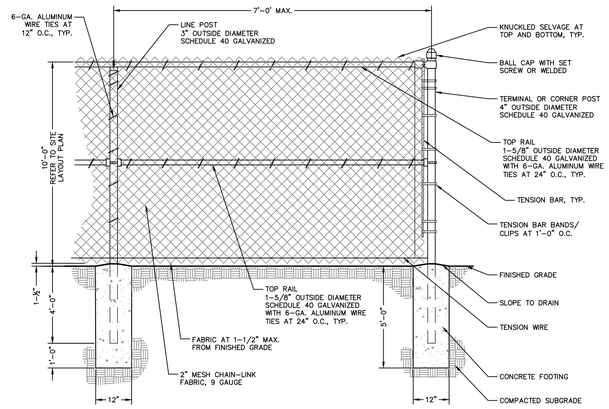

GATES SHALL BE FRAMED ON FOUR SIDES WITH 2 INCH DIA. STANDARD WEIGHT STEEL PIPE. THE GATE FRAMES SHALL BE OF ALL SHOP WELDED CONSTRUCTION WITH COMPLETE FULL WELDS GROUND SMOOTH. THEY SHALL BE THOROUGHLY CLEANED AND HOT DIPPED GALVANIZED IN ACCORD WITH A.S.T.M. SPECIFICATION A–123 AFTER FABRICATION.

GATE HINGES SHALL BE HEAVY DUTY MALLEABLE IRON FULL BACK TYPE, ALLOWING FOR 270 DEGREE SWING. GATE LOCKING DEVICE SHALL BE HEAVY DUTY EXTERNAL TYPE WITH LATCH, KEEPER AND ALL APPURTENANCES.

ALL GATES OVER 6 FEET HIGH SHALL HAVE AN INTERMEDIATE RAIL. WHEREVER A DIAGONAL BRACE CROSSES AN INTERMEDIATE RAIL THE BRACE SHALL PASS BETWEEN THE RAIL AND THE MESH.

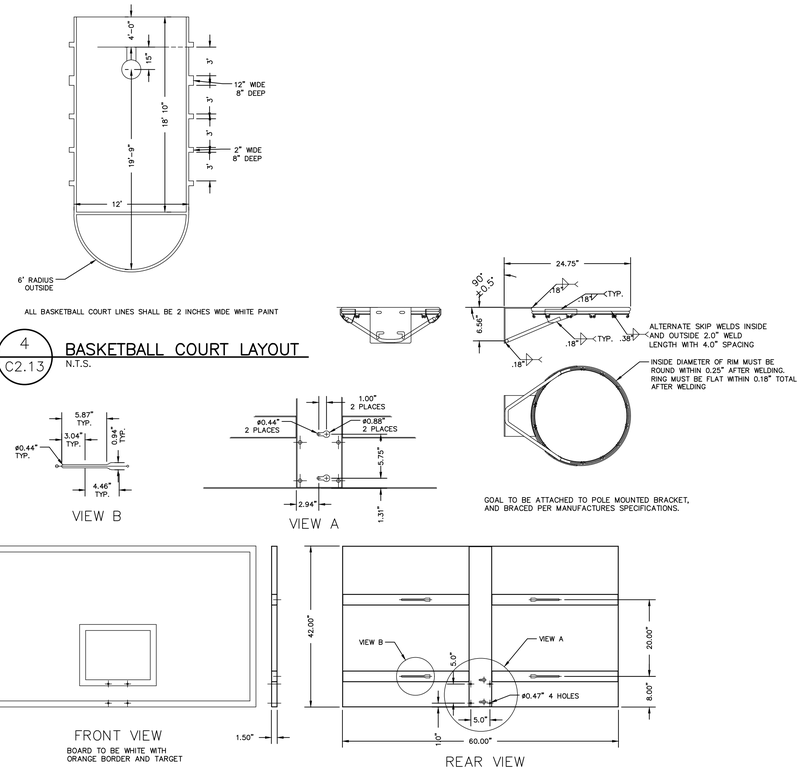
*ALL FENCE MATERIALS SHALL BE BLACK VINYL COATED.

2 / C2.13 — DOUBLE SWING GATE FOR BLACK VINYL COATED CHAIN–LINK FENCE
N.T.S.

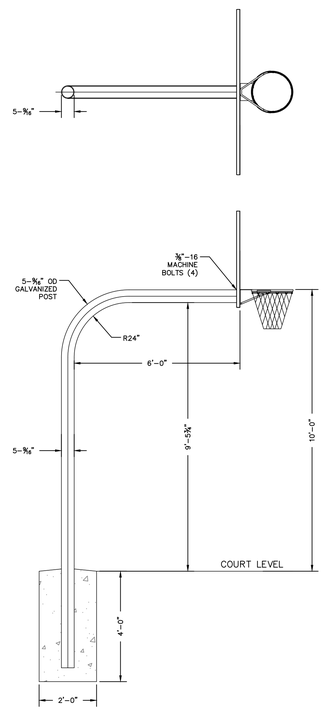



*ALL FENCE MATERIALS SHALL BE BLACK VINYL COATED.

3 / C2.13 — 10'–0" HIGH BLACK VINYL COATED CHAIN–LINK FENCE DETAIL
N.T.S.




5 / C2.13 — BASKETBALL BACKBOARD AND GOAL
N.T.S.




6 / C2.13 — BASKETBALL POLE
N.T.S.

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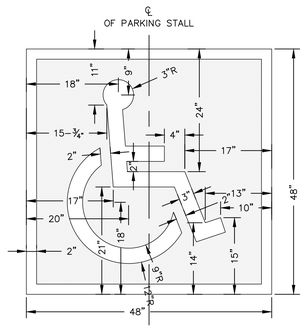
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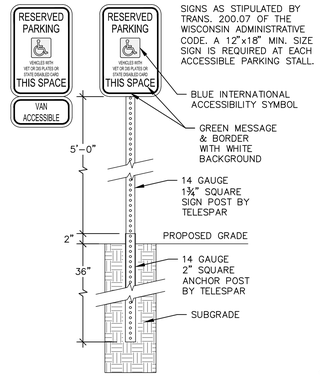
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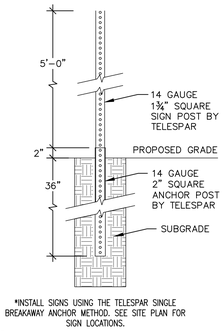

NOTE: SYMBOL AND BORDER SHALL BE PAINTED WHITE. BACKGROUND SHALL BE PAINTED BLUE.

1 C2.14 — INTERNATIONAL ACCESSIBILITY SYMBOL FOR PARKING STALLS
N.T.S.



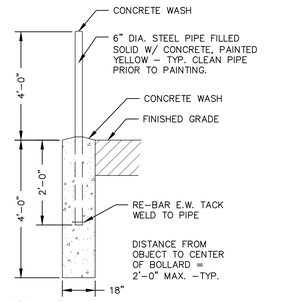

*INSTALL SIGNS USING THE TELESPAR SINGLE BREAKAWAY ANCHOR METHOD. SEE SITE PLAN FOR SIGN LOCATIONS.

2 C2.14 — ACCESSIBLE PARKING STALL SIGN
N.T.S.

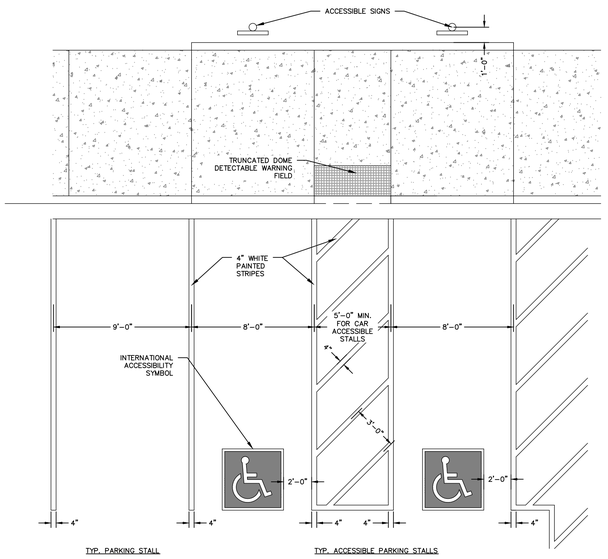



*INSTALL SIGNS USING THE TELESPAR SINGLE BREAKAWAY ANCHOR METHOD. SEE SITE PLAN FOR SIGN LOCATIONS.

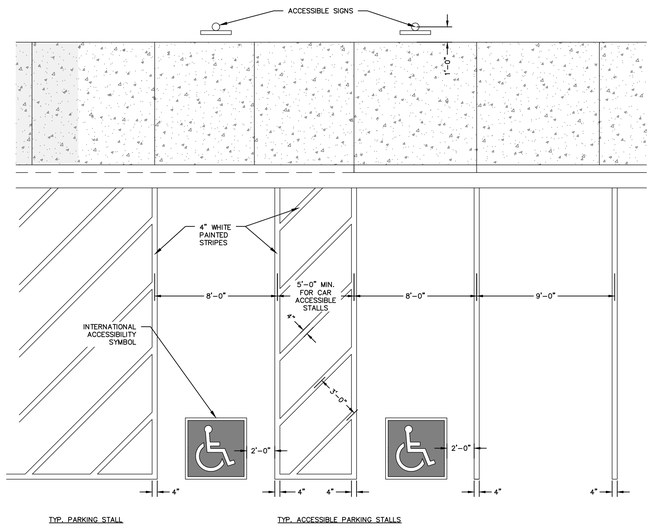
3 C2.14 — SIGN POST DETAIL
N.T.S.



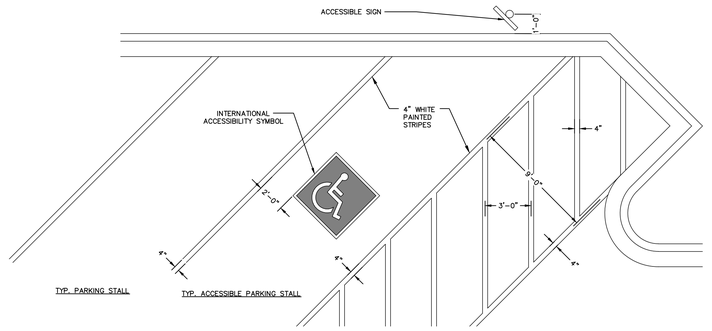

4 C2.14 — STANDARD STEEL BOLLARD
N.T.S.




5 C2.14 — ACCESSIBLE PARKING STALL MARKING
N.T.S.




6 C2.14 — ACCESSIBLE PARKING STALL MARKING
N.T.S.




7 C2.14 — ACCESSIBLE PARKING STALL MARKING
N.T.S.

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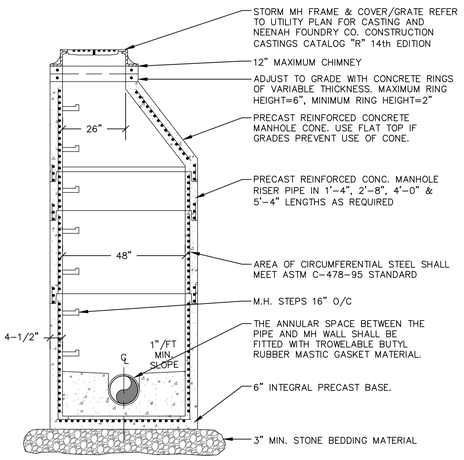
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2/02/2026

Project Number:
3415

Sheet Title:
**SITE DETAILS**

Sheet Number:
C2.14

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STORM MANHOLE NOTES:

1.) PRECAST CONCRETE ADJUSTING RINGS TO BE REINFORCED WITH ONE HOOP OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP.

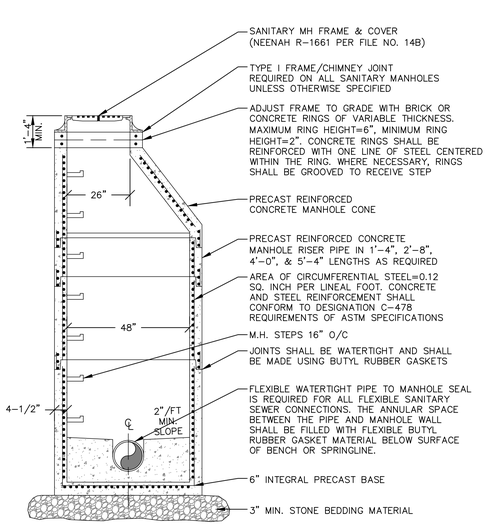
2.) CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

3.) JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.

4.) 3" MIN. BEDDING MATERIAL REQUIRED UNDER MANHOLE BASE AND BACKFILLED STRUCTURE WITH GRANULAR BACKFILL MATERIAL.

5.) SEE STANDARD SPECIFICATIONS, FILE NO. 12 FOR PRECAST MANHOLE AND FILE NO. 13 FOR MANHOLE INVERTS, INCLUDING INVERTS OF LATERAL SEWERS THAT CONNECT DIRECTLY TO MANHOLES.

1 / C2.20 **STORM MANHOLE DETAIL** N.T.S.

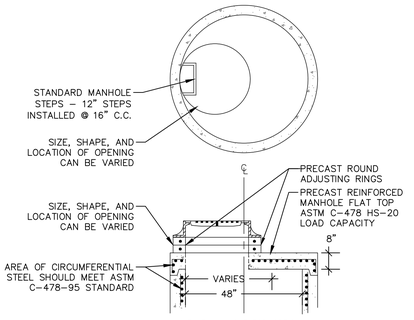



SANITARY MANHOLE NOTES:

1. 4" MIN. BEDDING MATERIAL REQUIRED UNDER INTEGRAL PRECAST MANHOLE BASE WITH A MINIMUM OF 4" OF GRANULAR BACKFILL MATERIAL PLACED AROUND THE OUTSIDE OF THE STRUCTURE.

2. SEE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, FILE NO. 12 FOR PRECAST MANHOLE AND FILE NO. 13 FOR MANHOLE INVERTS, INCLUDING INVERTS OF LATERAL SEWERS THAT CONNECT DIRECTLY TO MANHOLES.

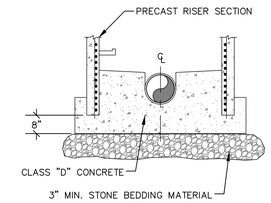
2 / C2.20 **SANITARY MANHOLE DETAIL** N.T.S.



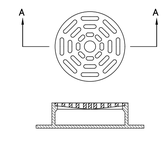

FLAT MANHOLE TOP OPTION

NOTE: USE ONLY WHEN LACK OF COVER PREVENTS USE OF CONE MANHOLE

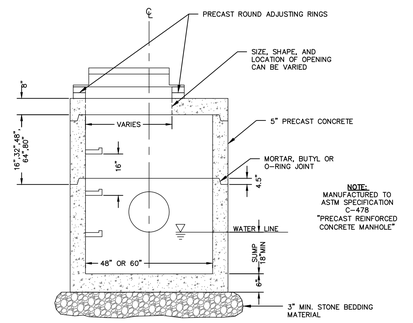
3 / C2.20 **OPTIONAL FLAT TOP MANHOLE WITH ROUND FRAME & COVER** N.T.S.




4 / C2.20 **OPTIONAL POURED MANHOLE BASE FOR MANHOLES** N.T.S.

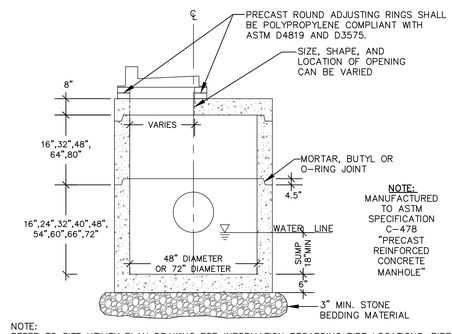



SECTION A-A



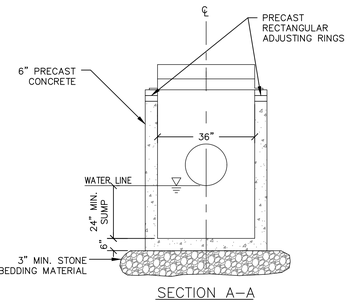

NOTE:
REFER TO SITE UTILITY PLAN FOR FRAME & GRATE & RIM ELEVATION.

5 / C2.20 **48-INCH DIAMETER STORM CATCH BASIN WITH ROUND FRAME & GRATE** N.T.S.

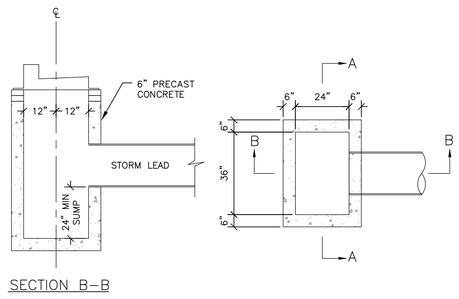



NOTE:
REFER TO SITE UTILITY PLAN DRAWING FOR INFORMATION REGARDING PIPE LOCATIONS, PIPE DIAMETERS, PIPE INVERTS, RIM ELEVATIONS, AND FRAMES & GRATES.

6 / C2.20 **ROUND STORM CATCH BASIN WITH CURB BOX FRAME & GRATE** N.T.S.




SECTION A-A

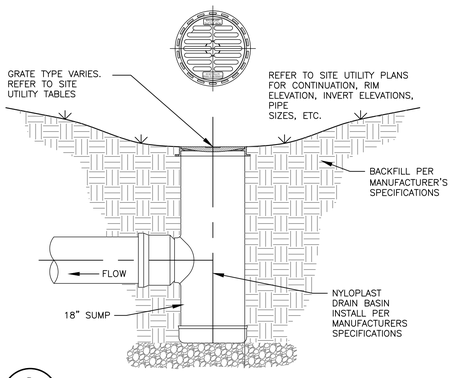



SECTION B-B

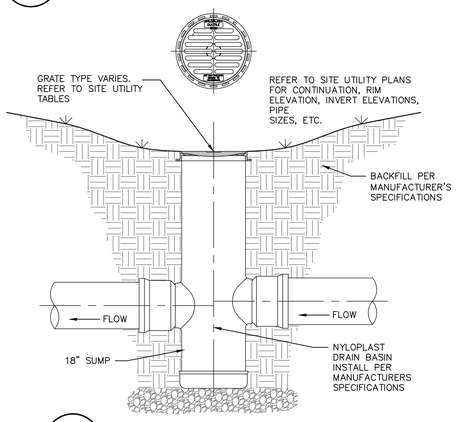
MANUFACTURED TO WISCONSIN DEPARTMENT OF TRANSPORTATION SPECIFICATIONS

NOTE:
REFER TO SITE UTILITY PLAN DRAWINGS FOR INFORMATION REGARDING PIPE LOCATIONS, PIPE DIAMETERS, PIPE INVERTS, RIM ELEVATIONS, AND FRAMES & GRATES.

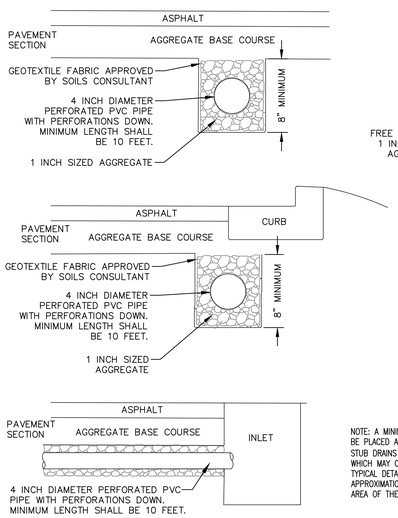
7 / C2.20 **24" X 36" STORM CATCH BASIN WITH GUTTER INLET/CURB BOX FRAME & GRATE** N.T.S.

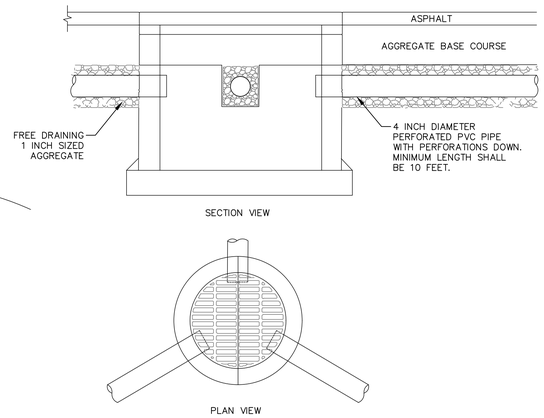



8 / C2.20 **NYLOPLAST DRAIN BASIN WITH OUTLET** N.T.S.




9 / C2.20 **NYLOPLAST DRAIN BASIN WITH INLET AND OUTLET** N.T.S.




SECTION VIEW

PLAN VIEW

NOTE: A MINIMUM OF TWO STUB DRAINS SHOULD BE PLACED AT EACH CATCH BASIN, AND THE INVERTS OF THE STUB DRAINS SHALL BE PLACED AT OR ABOVE THE CROWN OF THE DOWNSTREAM STORM SEWER PIPE OR BE PROTECTED WITH A BACKWATER VALVE. THE STUB DRAINS SHOULD BE PLACED PARALLEL TO THE DIRECTION OF VEHICLE TRAVEL TO MINIMIZE THE POTENTIAL FOR "FROST BUMPS" WHICH MAY OCCUR BECAUSE OF DIFFERING DEPTHS OF FILL MATERIAL. IN ADDITION, PLEASE NOTE THAT THIS DETAIL IS INTENDED AS A TYPICAL DETAIL ONLY AND CERTAIN CONSTRUCTION CONSIDERATIONS MAY LIMIT ITS DUPLICATION IN THE FIELD. HOWEVER, AN APPROXIMATION OF THESE CONDITIONS SHOULD MINIMIZE EXCESSIVE BUILD-UP OF WATER IN THE AGGREGATE BASE COURSE IN THE AREA OF THE CATCH BASINS.

10 / C2.20 **PAVEMENT DRAINTILE SUBDRAINAGE SYSTEM** N.T.S.

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Project Title:
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SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

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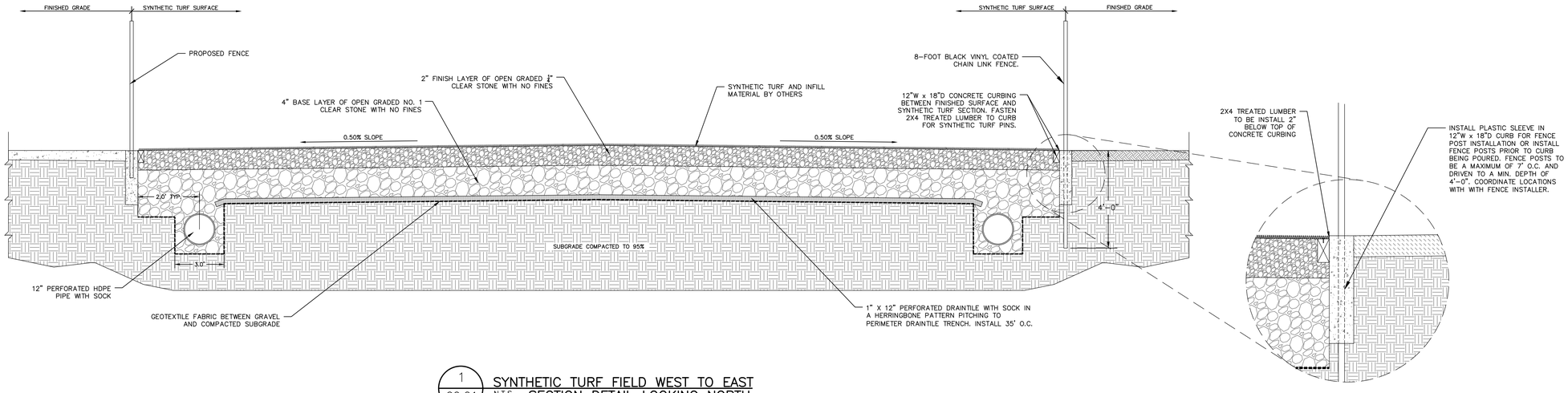
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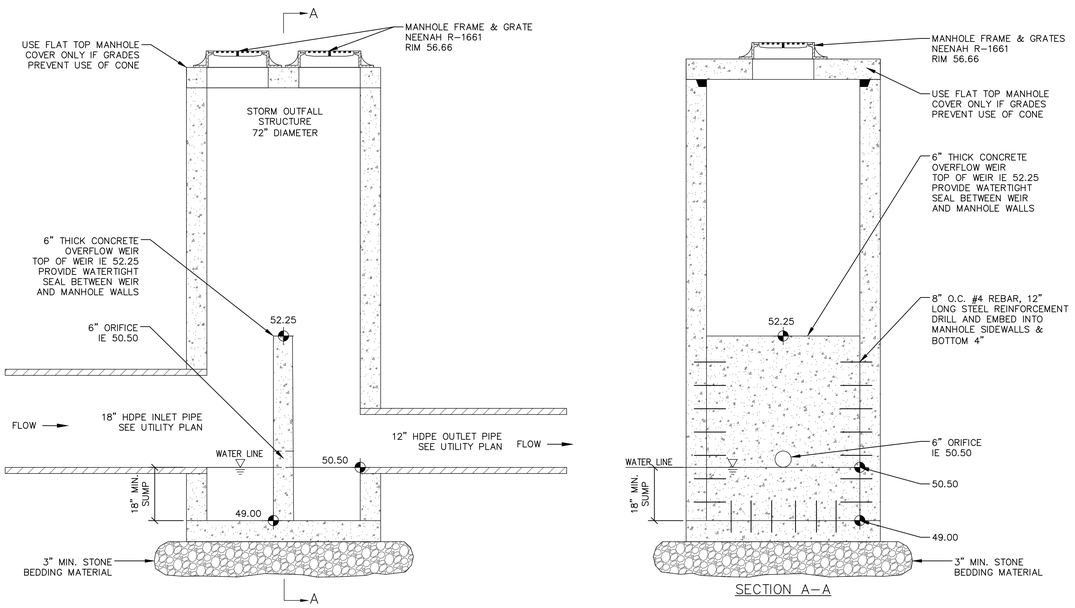
Sheet Title:
**SITE UTILITY DETAILS**

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C2.20

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1 / C2.21 SYNTHETIC TURF FIELD WEST TO EAST SECTION DETAIL LOOKING NORTH
N.T.S.




SECTION A-A

STORM MANHOLE NOTES:

1. PRECAST CONCRETE ADJUSTING RINGS TO BE REINFORCED WITH ONE HOOP OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP.
2. CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.
3. JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.
4. 3" MIN. BEDDING MATERIAL REQUIRED UNDER MANHOLE BASE AND BACKFILLED STRUCTURE WITH GRANULAR BACKFILL MATERIAL.
5. SEE STANDARD SPECIFICATIONS, FILE NO. 12 FOR PRECAST MANHOLE AND FILE NO. 13 FOR MANHOLE INVERTS, INCLUDING INVERTS OF LATERAL SEWERS THAT CONNECT DIRECTLY TO MANHOLES.

2 / C2.21 72-INCH UNDERGROUND DETENTION OUTLET STRUCTURE (OS-1)
N.T.S.

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Sheet Number:
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| PROJECT INFORMATION | |
|---|---|
| ENGINEERED PRODUCT MANAGER | |
| ADS SALES REP | |
| PROJECT NO. | |

ADS Advanced Drainage Systems, Inc.

SiteAssist™ FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

# FARNSWORTH MIDDLE SCHOOL EAST UGS

## SHEBOYGAN, WI, USA

## MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%, THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

## IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "MC-3500 & MC-4500 STORMTECH CHAMBER INSTALLATION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

## NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "MC-3500 & MC-4500 STORMTECH CHAMBER INSTALLATION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "MC-3500 & MC-4500 STORMTECH CHAMBER INSTALLATION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "MC-3500 & MC-4500 STORMTECH CHAMBER INSTALLATION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

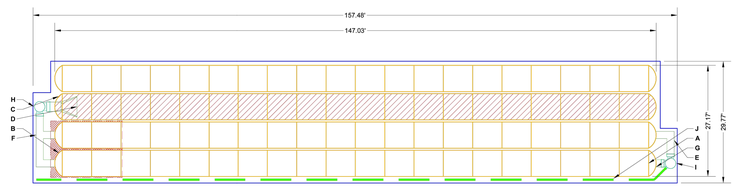
**USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**

CONTACT ADS WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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1 C2.22 EAST UNDERGROUND STORAGE N.T.S. DETAIL 1 OF 6

| PROPOSED LAYOUT | | PROPOSED ELEVATIONS | | | | *INVERT ABOVE BASE OF CHAMBER | |
|---|---|---|---|---|---|---|---|
| | | | PART TYPE | ITEM ON LAYOUT | DESCRIPTION | INVERT* | MAX FLOW |
| 80 | STORMTECH MC-3500 CHAMBERS | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED): | 60.00 | | | | |
| 8 | STORMTECH MC-3500 END CAPS | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): | 54.00 | | | | |
| 12 | STONE ABOVE (in) | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC): | 53.50 | A | PREFABRICATED END CAP | | |
| 9 | STONE BELOW (in) | MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT): | 53.50 | | CONNECTIONS | | |
| 40 | STONE VOID | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): | 53.50 | B | PREFABRICATED END CAP | | |
| 15440 | INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) | TOP OF STONE: | 53.00 | C | PREFABRICATED END CAP | | |
| | | TOP OF MC-3500 CHAMBER: | 52.33 | | CONNECTIONS AND ISOLATOR PLUS ROWS | | |
| | | 18" x 18" TOP MANIFOLD INVERT: | 49.53 | D | FLAMP | | |
| | BASE STONE INCLUDED) | 24" BOTTOM MANIFOLD INVERT: | 48.47 | E | MANIFOLD | 1.77' | |
| 4587 | SYSTEM AREA (SF) | 18" x 18" BOTTOM MANIFOLD INVERT: | 48.47 | F | 18" x 18" TOP MANIFOLD, ADS N-12 | 20.03' | |
| 374.5 | SYSTEM PERIMETER (ft) | 18" BOTTOM CONNECTION INVERT: | 48.47 | G | 18" BOTTOM CONNECTION | 1.77' | |
| 887 | THERMOPLASTIC LINER (SY) (20% OVERAGE) | BOTTOM OF MC-3500 CHAMBER: | 48.20 | H | 30" DIAMETER (24.00" SUMP MIN) | | 11.0 CFS IN |
| | | UNDERDRAIN INVERT: | 47.50 | | (PLUS ROW) | | |
| | | BOTTOM OF STONE: | 47.50 | I | 30" DIAMETER (DESIGN BY ENGINEER) | | 8.0 CFS OUT |
| | | | | J | 6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN | | |




ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

THERMOPLASTIC LINER (SEE TECH NOTE #6.50 PROVIDED BY OTHERS / DESIGN BY OTHERS)

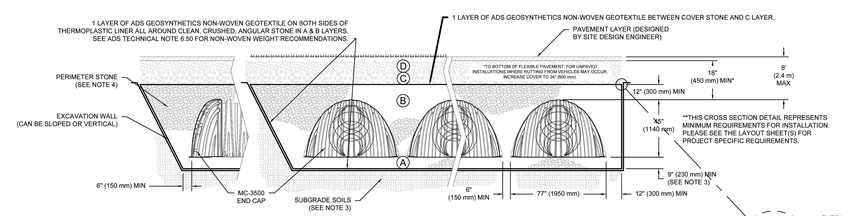
**NOTES**
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

2 C2.22 EAST UNDERGROUND STORAGE N.T.S. DETAIL 2 OF 6

## ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

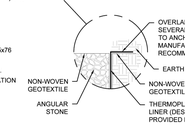
| | MATERIAL LOCATION | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | **FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | **INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145[1]<br>A-1, A-2-4, A-3<br>OR<br>AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. |
| B | **EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[3] | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | **FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[3] | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE[2,3] |

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



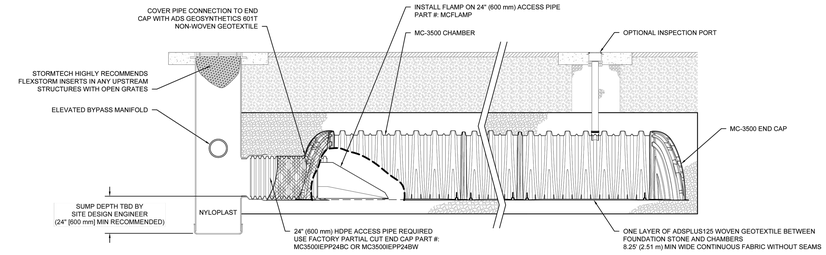

## NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.




THERMOPLASTIC LINER DETAIL

3 C2.22 EAST UNDERGROUND STORAGE N.T.S. DETAIL 3 OF 6




**MC-3500 ISOLATOR ROW PLUS DETAIL**
NTS

### INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

### NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4 C2.22 EAST UNDERGROUND STORAGE N.T.S. DETAIL 4 OF 6

FARNSWORTH MIDDLE SCHOOL EAST UGS
SHEBOYGAN, WI, USA
DATE: 01/23/2026
PROJECT #:
DRAWN: NM
CHECKED: N/A
DATE | DWN | CHK

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SHEET 2 OF 6 / 3 OF 6 / 4 OF 6

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kapur

Project Title:
Addition & Renovation to:
FARNSWORTH MIDDLE SCHOOL
SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

REVISIONS:

| | DATE | DESCRIPTION |
|---|---|---|

Issued for:
CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

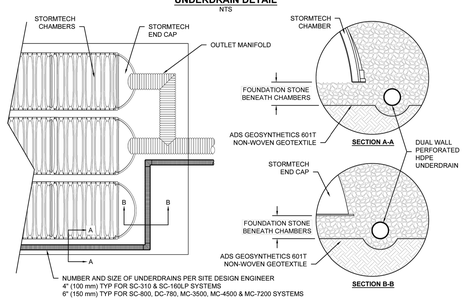
Project Number:
3415

Sheet Title:
**SITE UTILITY DETAILS**

Sheet Number:
C2.22

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## UNDERDRAIN DETAIL
NTS

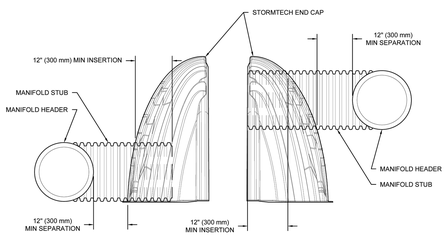






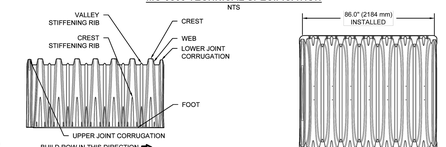


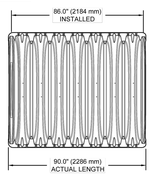

## MC-SERIES END CAP INSERTION DETAIL
NTS




NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

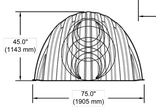
## MC-3500 TECHNICAL SPECIFICATION
NTS

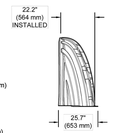









**NOMINAL CHAMBER SPECIFICATIONS**

| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 77.0" X 45.0" X 86.0" | (1956 mm X 1143 mm X 2184 mm) |
| CHAMBER STORAGE | 109.9 CUBIC FEET | (3.11 m³) |
| MINIMUM INSTALLED STORAGE* | 175.0 CUBIC FEET | (4.96 m³) |
| WEIGHT | 134 lbs. | (60.8 kg) |

**NOMINAL END CAP SPECIFICATIONS**

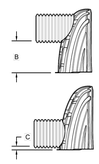
| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 75.0" X 45.0" X 22.2" | (1905 mm X 1143 mm X 564 mm) |
| END CAP STORAGE | 14.9 CUBIC FEET | (0.42 m³) |
| MINIMUM INSTALLED STORAGE* | 45.1 CUBIC FEET | (1.28 m³) |
| WEIGHT | 49 lbs. | (22.2 kg) |

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

| PART # | STUB | B | C |
|---|---|---|---|
| MC3500IEPP06T | 6" (150 mm) | 33.21" (844 mm) | --- |
| MC3500IEPP06B | | --- | 0.66" (17 mm) |
| MC3500IEPP08T | 8" (200 mm) | 31.16" (791 mm) | --- |
| MC3500IEPP08B | | --- | 0.81" (21 mm) |
| MC3500IEPP10T | 10" (250 mm) | 29.04" (738 mm) | --- |
| MC3500IEPP10B | | --- | 0.93" (24 mm) |
| MC3500IEPP12T | 12" (300 mm) | 26.36" (670 mm) | --- |
| MC3500IEPP12B | | --- | 1.35" (34 mm) |
| MC3500IEPP15T | 15" (375 mm) | 23.39" (594 mm) | --- |
| MC3500IEPP15B | | --- | 1.50" (38 mm) |
| MC3500IEPP18TC | 18" (450 mm) | 20.03" (509 mm) | --- |
| MC3500IEPP18TW | | | |
| MC3500IEPP18BC | | --- | 1.77" (45 mm) |
| MC3500IEPP18BW | | | |
| MC3500IEPP24TC | 24" (600 mm) | 14.48" (368 mm) | --- |
| MC3500IEPP24TW | | | |
| MC3500IEPP24BC | | --- | 2.06" (52 mm) |
| MC3500IEPP24BW | | | |
| MC3500IEPP30BC | 30" (750 mm) | --- | 2.75" (70 mm) |

NOTE: ALL DIMENSIONS ARE NOMINAL



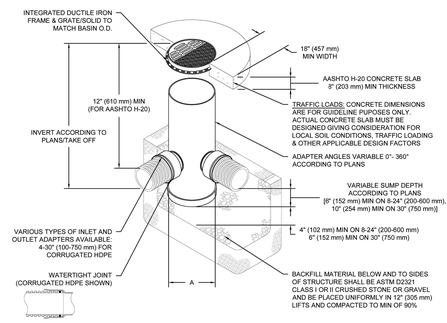

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

FARNSWORTH MIDDLE SCHOOL
EAST UGS
SHEBOYGAN, WI, USA
DATE: 01/23/2026
PROJECT #:
DRAWN: NM
CHECKED: N/A

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5 OF 6

1 C2.23 EAST UNDERGROUND STORAGE N.T.S. DETAIL 5 OF 6

## NYLOPLAST DRAIN BASIN
NTS




## NOTES
1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

| A | PART # | GRATE/SOLID COVER OPTIONS | | |
|---|---|---|---|---|
| 8" (200 mm) | 2808AG | PEDESTRIAN LIGHT DUTY | STANDARD LIGHT DUTY | SOLID LIGHT DUTY |
| 10" (250 mm) | 2810AG | PEDESTRIAN LIGHT DUTY | STANDARD LIGHT DUTY | SOLID LIGHT DUTY |
| 12" (300 mm) | 2812AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 15" (375 mm) | 2815AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 18" (450 mm) | 2818AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 24" (600 mm) | 2824AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 30" (750 mm) | 2830AG | PEDESTRIAN AASHTO H-20 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |

FARNSWORTH MIDDLE SCHOOL
EAST UGS
SHEBOYGAN, WI, USA
DATE: 01/23/2026
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2 C2.23 EAST UNDERGROUND STORAGE N.T.S. DETAIL 6 OF 6

| PROJECT INFORMATION | |
|---|---|
| ENGINEERED PRODUCT MANAGER | |
| ADS SALES REP | |
| PROJECT NO. | |

Advanced Drainage Systems, Inc.

SiteAssist™ FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

# FARNSWORTH MIDDLE SCHOOL NORTH UGS
SHEBOYGAN, WI, USA

## SC-800 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-800.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 700 LBS/F/IN, THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

## IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

1. STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

## NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

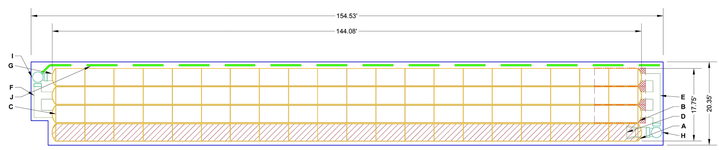
**USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**

CONTACT ADS WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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3 C2.23 NORTH UNDERGROUND STORAGE N.T.S. DETAIL 1 OF 6

| PROPOSED LAYOUT | | | PROPOSED ELEVATIONS | | *INVERT ABOVE BASE OF CHAMBER | | | |
|---|---|---|---|---|---|---|---|---|
| 80 | STORMTECH SC-800 CHAMBERS | | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED): | 61.32 | PART TYPE | ITEM ON LAYOUT | DESCRIPTION | INVERT* | MAX FLOW |
| 8 | STORMTECH SC-800 END CAPS | | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC): | 55.50 | | | | | |
| 6 | STONE ABOVE (in) | | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC): | 55.00 | PREFABRICATED EZ END CAP | A | 24" BOTTOM PREFABRICATED EZ END CAP, PART#: SC800ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS | | |
| 6 | STONE BELOW (in) | | MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT): | 55.00 | PRE-CORED END CAP | B | 18" TOP PRE-CORED END CAP, PART#: SC800EPE18TPC / TYP OF ALL 18" TOP CONNECTIONS | | |
| 40 | STONE VOID | | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT): | 55.00 | | | | | |
| 7126 | INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED) | | TOP OF STONE: | 54.20 | PRE-CORED END CAP | C | 18" BOTTOM PRE-CORED END CAP, PART#: SC800EPE18BPC / TYP OF ALL 18" BOTTOM CONNECTIONS | | |
| | | | TOP OF SC-800 CHAMBER: | 53.17 | | | | | |
| | | | 18" x 18" TOP MANIFOLD INVERT: | 51.67 | FLAMP | D | INSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC80024RAMP | | |
| | | | 24" ISOLATOR ROW PLUS INVERT: | 51.15 | MANIFOLD | E | 18" x 18" TOP MANIFOLD, ADS N-12 | 8.00" | |
| 3120 | SYSTEM AREA (SF) | | 18" x 18" BOTTOM MANIFOLD INVERT: | 51.17 | MANIFOLD | F | 18" x 18" BOTTOM MANIFOLD, ADS N-12 | 2.00" | |
| 349.8 | SYSTEM PERIMETER (ft) | | 18" BOTTOM CONNECTION INVERT: | 51.17 | PIPE CONNECTION | G | 18" BOTTOM CONNECTION | 2.00" | |
| 591 | THERMOPLASTIC LINER (SY) (20% OVERAGE) | | BOTTOM OF SC-800 CHAMBER: | 51.00 | NYLOPLAST (INLET W/ ISO PLUS ROW) | H | 30" DIAMETER (24.00" SUMP MIN) | | 8.4 CFS IN |
| | | | UNDERDRAIN INVERT: | 50.50 | | | | | |
| | | | BOTTOM OF STONE: | 50.50 | NYLOPLAST (OUTLET) | I | 30" DIAMETER (DESIGN BY ENGINEER) | | 8.0 CFS OUT |
| | | | | | UNDERDRAIN | J | 6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN | | |




ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.50' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

THERMOPLASTIC LINER (SEE TECH NOTE #6.50 PROVIDED BY OTHERS / DESIGN BY OTHERS)

**NOTES**
- THIS SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

FARNSWORTH MIDDLE SCHOOL
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4 C2.23 NORTH UNDERGROUND STORAGE N.T.S. DETAIL 2 OF 6

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Saint Paul
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kapur

Project Title:
Addition & Renovation to:
FARNSWORTH MIDDLE SCHOOL
SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

REVISIONS:

| | DATE | DESCRIPTION |
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Issued for:
CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
3415

Sheet Title:
**SITE UTILITY DETAILS**

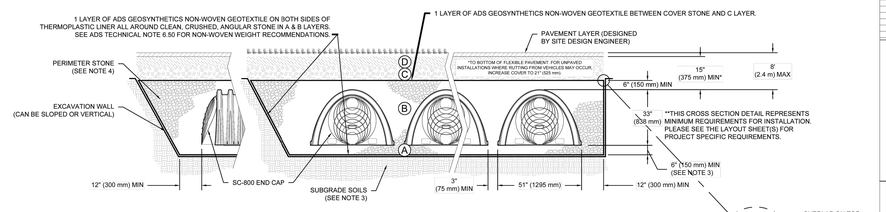
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## ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

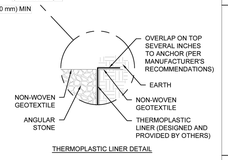
| MATERIAL LOCATION | | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | **FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. PAVED CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | **INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145[1]<br>A-1, A-2-4, A-3<br>OR<br>AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B | **EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[3] | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | **FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[3] | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3] |

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".




## NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.



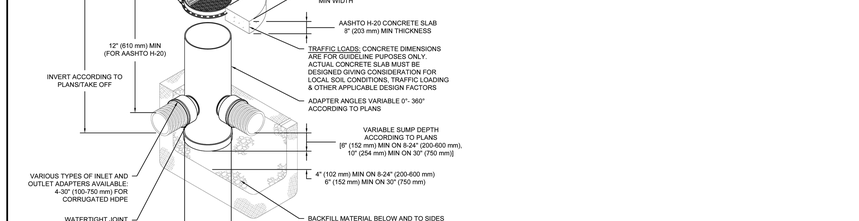

THERMOPLASTIC LINER DETAIL

FARNSWORTH MIDDLE SCHOOL
NORTH UGS
SHEBOYGAN, WI, USA
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SHEET 3 OF 6

1 C2.24 NORTH UNDERGROUND STORAGE N.T.S. DETAIL 3 OF 6




**SC-800 ISOLATOR ROW PLUS DETAIL**
NTS

### INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

### NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

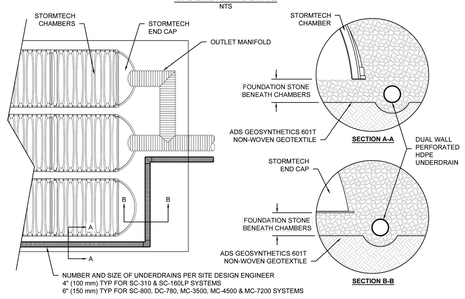
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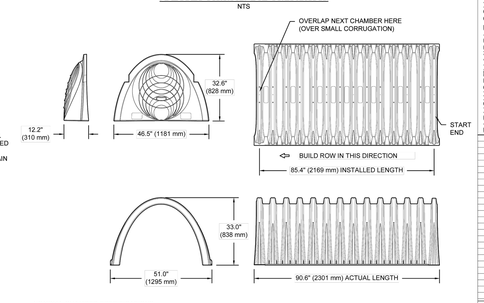
SHEET 4 OF 6

2 C2.24 NORTH UNDERGROUND STORAGE N.T.S. DETAIL 4 OF 6

## UNDERDRAIN DETAIL
NTS




## SC-800 TECHNICAL SPECIFICATION
NTS




**NOMINAL CHAMBER SPECIFICATIONS**

| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 51.0" X 33.0" X 85.4" | (1295 mm X 838 mm X 2169 mm) |
| CHAMBER STORAGE | 50.6 CUBIC FEET | (1.43 m³) |
| MINIMUM INSTALLED STORAGE* | 78.4 CUBIC FEET | (2.22 m³) |
| WEIGHT | 81.8 lbs. | (37.1 kg) |

**NOMINAL END CAP SPECIFICATIONS**

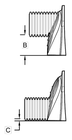
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|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 46.5" X 32.6" X 10.5" | (1181 mm X 828 mm X 267 mm) |
| END CAP STORAGE | 3.4 CUBIC FEET | (0.09 m³) |
| MINIMUM INSTALLED STORAGE** | 14.7 CUBIC FEET | (0.42 m³) |
| WEIGHT | 15.7 lbs. | (7.1 kg) |

* ASSUMES 6" (150 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS, 3" (75 mm) BETWEEN CHAMBERS
**ASSUMES 6" (150 mm) STONE ABOVE AND BELOW END CAPS, 3" (150 mm) BETWEEN ROWS, 12" (300 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC"
PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

| PART # | STUB | B | C |
|---|---|---|---|
| SC800EPE06TPC | 6" (150 mm) | 21.4" (544 mm) | --- |
| SC800EPE06BPC | | --- | 0.9" (23 mm) |
| SC800EPE08TPC | 8" (200 mm) | 19.2" (488 mm) | --- |
| SC800EPE08BPC | | --- | 1.0" (25 mm) |
| SC800EPE10TPC | 10" (250 mm) | 17.0" (432 mm) | --- |
| SC800EPE10BPC | | --- | 1.2" (30 mm) |
| SC800EPE12TPC | 12" (300 mm) | 14.4" (366 mm) | --- |
| SC800EPE12BPC | | --- | 1.6" (41 mm) |
| SC800EPE15TPC | 15" (375 mm) | 11.3" (287 mm) | --- |
| SC800EPE15BPC | | --- | 1.7" (43 mm) |
| SC800EPE18TPC | 18" (450 mm) | 8.0" (203 mm) | --- |
| SC800EPE18BPC | | --- | 2.0" (51 mm) |
| SC800EPE24BPC | 24" (600 mm) | --- | 2.3" (58 mm) |
| SC800EPE | NONE | SOLID END CAP | |

NOTE: ALL DIMENSIONS ARE NOMINAL




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SHEET 5 OF 6

3 C2.24 NORTH UNDERGROUND STORAGE N.T.S. DETAIL 5 OF 6

## NYLOPLAST DRAIN BASIN
NTS




### NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

| A | PART # | GRATE/SOLID COVER OPTIONS | | |
|---|---|---|---|---|
| 8" (200 mm) | 2808AG | PEDESTRIAN LIGHT DUTY | STANDARD LIGHT DUTY | SOLID LIGHT DUTY |
| 10" (250 mm) | 2810AG | PEDESTRIAN LIGHT DUTY | STANDARD LIGHT DUTY | SOLID LIGHT DUTY |
| 12" (300 mm) | 2812AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 15" (375 mm) | 2815AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 18" (450 mm) | 2818AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 24" (600 mm) | 2824AG | PEDESTRIAN AASHTO H-10 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |
| 30" (750 mm) | 2830AG | PEDESTRIAN AASHTO H-20 | STANDARD AASHTO H-20 | SOLID AASHTO H-20 |

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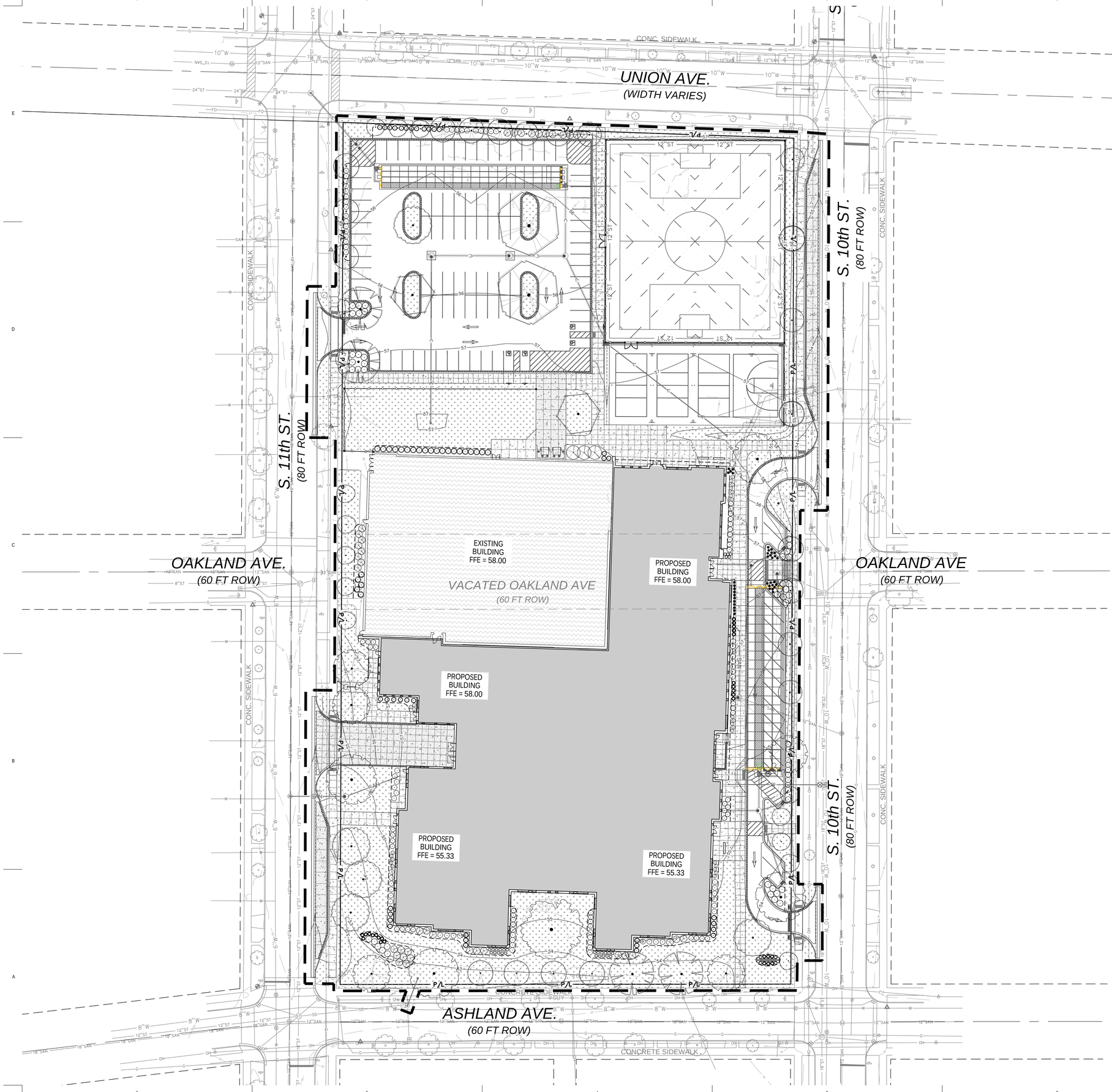
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2/02/2026

Project Number:
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Sheet Title:
**SITE UTILITY DETAILS**

Sheet Number:
C2.24

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## HATCH LEGEND

- PROJECT LIMITS
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- EASE EASEMENT LINE
- ALUMINUM EDGING (6 / L2.11)
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SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

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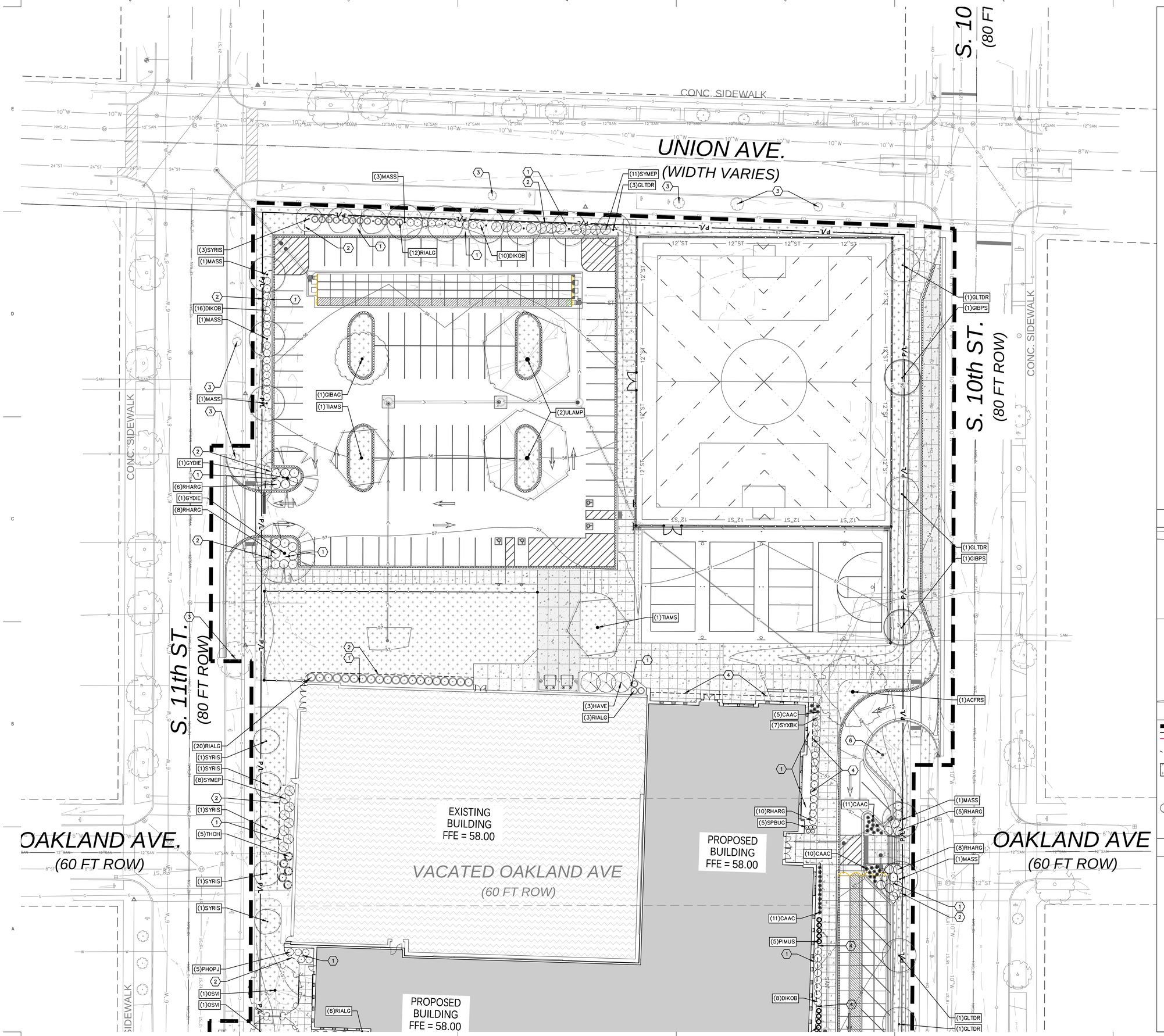
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**OVERALL SITE LANDSCAPE PLAN**

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L1.10

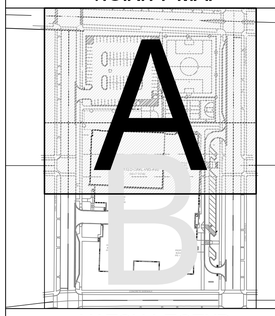
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## VICINITY MAP




## HATCH LEGEND

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- (10)HEPM — PLANT "CODE" REFERENCES TO THE PLANT SCHEDULE
- QUANTITY OF PLANTS IN THE PLANT GROUPING
- LEADER LINE
- PLANT SYMBOL (SYMBOL VARIES)

## KEY INDEX

1. SHREDDED HARDWOOD MULCH (5 / L2.11)
2. ALUMINUM EDGING AT PLANTING BED (6 / L2.11)
3. EXISTING DECIDUOUS TREE TO REMAIN (PROTECT FROM DAMAGE DURING CONSTRUCTION)
4. TYPICAL BUILDING OVERHANG (DO NOT INSTALL PLANTS ENTIRELY UNDER OVERHANG BECAUSE RAIN WATER WILL NOT BE ABLE TO REACH THE PLANTS ROOTS.)
5. MONUMENT SIGN (SEE CIVIL AND ARCHITECTURAL PLAN FOR MORE INFORMATION)
6. FLAG POLE (SEE CIVIL AND ARCHITECTURAL PLAN FOR MORE INFORMATION)

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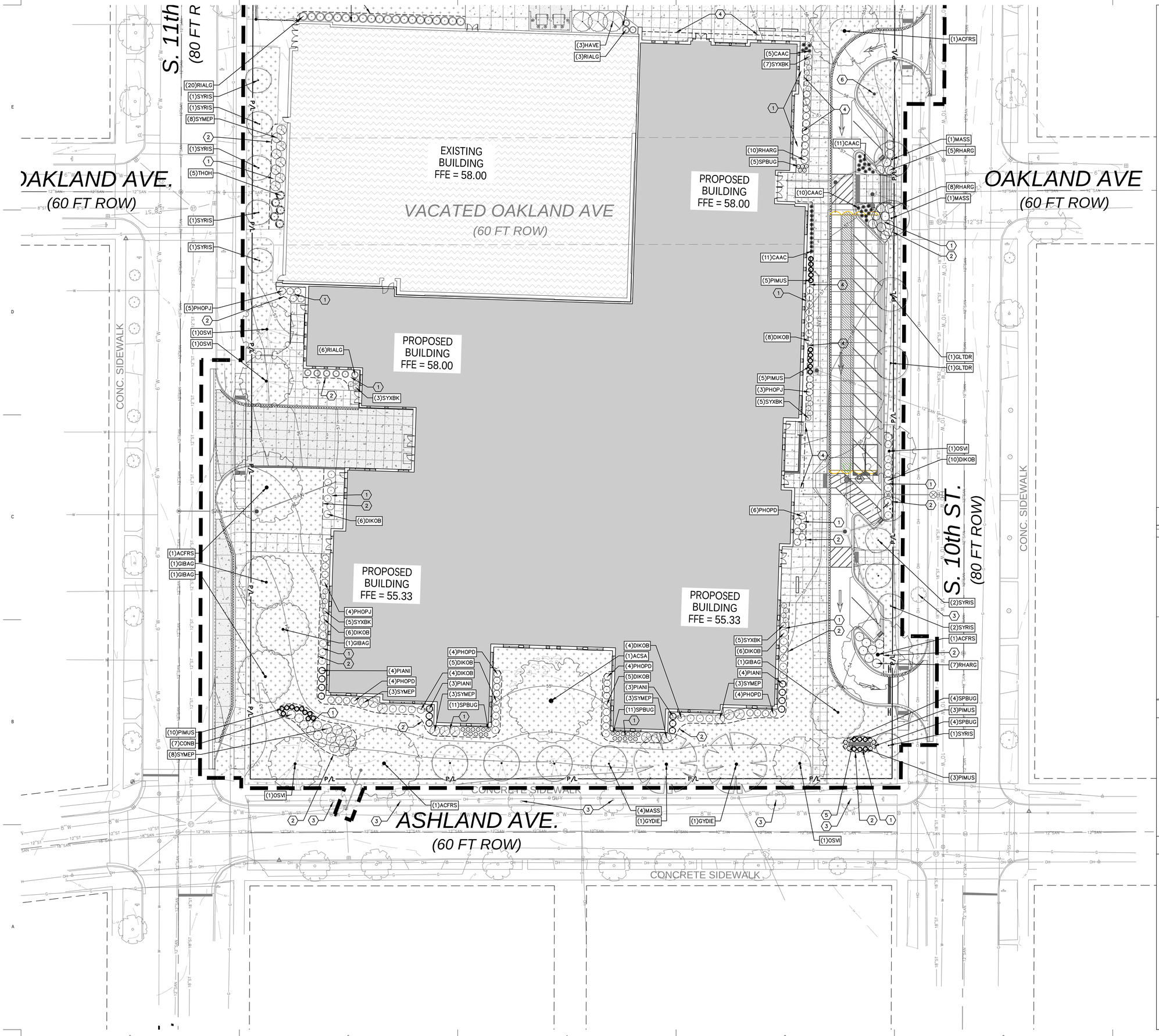
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**SITE UTILITY PLAN - AREA A**

Sheet Number:
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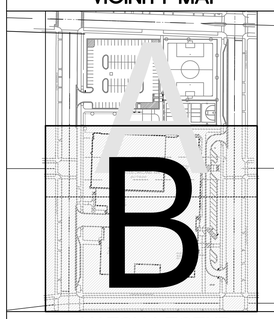
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## VICINITY MAP




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Project Number:
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Sheet Title:
**SITE LANDSCAPE PLAN - AREA B**

Sheet Number:
L1.12B

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# Plant Schedule

| Code | Scientific Name | Common Name | Quantity | Spacing | Install Size / Root Type | Mature Size (Height/Spread) | Landscape points each | Proposed Building Foundations landscape points | Existing Building Foundations landscape points | Street Frontage landscape points - Union Avenue | Street Frontage landscape points - S. 10th St. | Street Frontage landscape points - Ashland Avenue | Street Frontage landscape points - S. 11th St. | Paved Areas landscape points East Parking Lot | Paved Areas landscape points Northwest Parking Lot | Developed Lots landscape points |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Shade and Tall Trees: (Install in accordance with detail 1/L2.11)** | | | | | | | | | | | | | | | | |
| ACFRS | Acer x freemanii 'Sienna' | Sienna Glenn Maple | 4 | Per Plan | 2" caliper / B&B | 60'/40' | 30 points | | | | 30 | 30 | 30 | 30 | | |
| ACSA | Acer saccharum | Sugar Maple | 1 | Per Plan | 2" caliper / B&B | 50'-75'/50' | 75 points | | | | | | | | | 75 |
| GIBAG | Ginkgo biloba 'Autumn Gold' | Autumn Gold Ginkgo (male) | 5 | Per Plan | 2" caliper / B&B | 50'/30' | 75 points | | | | | | 150 | | 75 | 150 |
| GIBPS | Ginkgo biloba 'Princeton Sentry' | Princeton Sentry Ginkgo (male) | 2 | Per Plan | 2" caliper / B&B | 40'/15' | 30 points | | | | 60 | | | | | |
| GLTDR | Gleditsia triacanthos 'Draves' | Street Keeper Honeylocust | 7 | Per Plan | 2" caliper / B&B | 45'/20' | 30 points | | | 90 | 120 | | | | | |
| GYDIE | Gymnocladus dioicus 'Espresso' | Espresso Kentucky Coffee Tree | 4 | Per Plan | 2" caliper / B&B | 50'/35' | 30 points | | | | | 60 | | | 60 | |
| TIAMS | Tilia americana 'Sentry' | Sentry American Linden | 2 | Per Plan | 2" caliper / B&B | 50'-60'/25'-35' | 30 points | | | | | | | | 30 | 30 |
| ULAMP | Ulmus americana 'Princeton' | Princeton Elm | 2 | Per Plan | 2" caliper / B&B | 60'-80'/40'-60' | 30 points | | | | | | | | 60 | |
| **Medium and Low Trees: (Install in accordance with detail 1/L2.11)** | | | | | | | | | | | | | | | | |
| MASS | Malus x 'Spring Snow' | Spring Snow Crabapple | 12 | Per Plan | 2" caliper / B&B | 20-25'/15-20' | 10 points | | | 30 | 20 | 40 | 30 | | | |
| OSVI | Ostrya virginiana | Ironwood, Hophornbeam | 5 | Per Plan | 2" caliper / B&B | 25'-40'/15'-30' | 10 points | | | | 10 | 20 | 20 | | | |
| SYRIS | Syringa reticulata 'Ivory Silk' | Ivory Silk Japanese Tree Lilac | 13 | Per Plan | 2" caliper / B&B | 25'/15' | 10 points | | | 30 | 50 | | 50 | | | |
| **Evergreen Trees: (Install in accordance with detail 2/L2.11)** | | | | | | | | | | | | | | | | |
| THOH | Thuja occidentalis 'Holmstrup' | Holmstrup Arborvitae | 5 | Per Plan | 4' tall / B&B | 12'-16'/2'-4' | 12 points | | 60 | | | | | | | |
| **Deciduous Shrubs: (Install in accordance with detail 3/L2.11)** | | | | | | | | | | | | | | | | |
| CONB | Cornus alba 'ByBoughen' PP27,956 | Neon Burst Dogwood | 7 | Per Plan | 24" tall / pot | 4'-6'/4'-6' | 3 points | | | | | | | | | 21 |
| DIKOB | Diervilla x 'G2X88544' PP27,548 | Kodiak Orange Bush Honeysuckle | 80 | Per Plan | 24" tall / pot | 3'-4'/3'-4' | 3 points | 132 | | | | | | 30 | 78 | |
| HAVE | Hamamelis vernalis | Vernal Witchhazel | 3 | Per Plan | 36" tall / pot | 6'-10'/10'-15' | 5 points | | 15 | | | | | | | |
| PHOPD | Physocarpus opulifolius 'Donna May' PP22,634 | Little Devil Ninebark | 22 | Per Plan | 24" tall / pot | 3'-4'/3'-4' | 3 points | 66 | | | | | | | | |
| PHOPJ | Physocarpus opulifolius 'Jefam' PPAF | Amber Jubilee Ninebark | 12 | Per Plan | 36" tall / pot | 5'-6'/4' | 5 points | 60 | | | | | | | | |
| RHARG | Rhus aromatica 'Gro-Low' | Gro-Low Sumac | 44 | Per Plan | 18" spread / pot | 2'-3'/6'-8' | 1 point | 10 | | | | | | 20 | 14 | |
| RIALG | Ribes alpinum 'Green Mound' | Green Mound Alpine Currant | 41 | Per Plan | 18" tall / pot | 3'-5'/3'-5' | 1 point | 6 | 23 | | | | | | 12 | |
| SPBUG | Spiraea x bumalda 'Goldflame' | Goldflame Spirea | 35 | Per Plan | 18" tall / pot | 2'-3'/3-4' | 1 point | 27 | | | | | | | | 8 |
| SYMEP | Syringa meyeri 'Palibin' | Meyer Lilac (Dwarf Korean Lilac) | 39 | Per Plan | 36" tall / pot | 4'-5'/5'-7' | 5 points | 60 | 40 | | | | | | 55 | 40 |
| SYXBK | Syringa x 'SMNSDTP' | Baby Kim Lilac | 25 | Per Plan | 18" tall / pot | 2'-3'/2.5'-3' | 1 point | 25 | | | | | | | | |
| **Evergreen Shrubs: (Install in accordance with detail 3/L2.11)** | | | | | | | | | | | | | | | | |
| PIANI | Picea abies 'Nidiformis' | Bird's Nest Spruce | 14 | Per Plan | 18" spread / pot | 2'-3'/4'-6' | 5 points | 70 | | | | | | | | |
| PIMUS | Pinus mugo 'Slowmound' | Slowmound Mugo Pine | 26 | Per Plan | 18" spread / pot | 3'/3' | 5 points | 50 | | | | | | | | 80 |
| **Perennials: (Install in accordance with detail 4/L2.11)** | | | | | | | | | | | | | | | | |
| CAAC | Calamagrostis x acutiflora Karl Foerster | Karl Foerster Reed Grass | 37 | Per Plan | #1 cont. | 5'-6'/18"-24" | 0 points | | | | | | | | | |
| plan. When discrepancies between the plant schedule, labels and the landscape plan occur, the quantity drawn on the landscape plan shall be the official quantity. | | | | | | | | | | | | | | | | |
| **Total Landscape Points Provided** | | | | | | | | **506** | **138** | **150** | **290** | **150** | **280** | **80** | **384** | **404** |
| **Total Landscape Points Required** | | | | | | | | 505 | 138 | 145 | 271 | 144 | 276 | 80 | 380 | 403 |

1 L2.10 LANDSCAPE SCHEDULE
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

1. ALL PLANT MATERIAL SHALL BE OBTAINED FROM A NURSERY LOCATED IN ZONE 5, CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AND BOTANICAL NAMES SHALL BE ACCORDING TO THE CURRENT EDITION OF "STANDARDIZED PLANT NAMES" PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE.
2. CONTRACTOR TO PROVIDE TO THE LANDSCAPE ARCHITECT SAMPLES OF ALL BARK AND MINERAL/STONE MULCHES, DECORATIVE GRAVELS, MAINTENANCE STRIP STONE, OR OTHER GROUND COVER MATERIALS FOR APPROVAL PRIOR TO INSTALLATION.
3. HARDWOOD MULCH TO BE FRESHLY ACQUIRED SHREDDED HARDWOOD BARK MULCH. DOUBLE MILLED, EXCESSIVE DIRT AND DUST LIKE MATERIAL OR OLD MATERIAL IS NOT ACCEPTABLE.
4. LANDSCAPE EDGING TO BE ALUMINUM EDGING. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.
5. SHRUB PLANTING AREAS TO RECEIVE A 3–INCH THICK LAYER OF HARDWOOD SHREDDED BARK MULCH WITH EDGING. EDGING TO BE INSTALLED BETWEEN DIFFERENT TYPES OF MULCHES, BETWEEN MULCHES AND TURF, AND/OR WHERE SPECIFICALLY NOTED ON THE PLAN. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.
6. INSTALL SHOVEL CUT EDGE AROUND ALL INDIVIDUAL TREES AND SHRUBS IN LAWN AREAS AND ALONG PAVEMENT WHERE PLANTING AREAS ABUT TO PREVENT HARDWOOD SHREDDED BARK MULCH FROM SPILLING OUT OF PLANTING AREA.
7. CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF PLANT MATERIAL FOR 90 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SEEDED AREAS FOR 60 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR TO PROVIDE AND REVIEW MAINTENANCE INSTRUCTIONS WITH THE OWNER PRIOR TO THE COMPLETION OF THESE MAINTENANCE PERIODS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. CLEANLY PRUNE AND REMOVE DAMAGED BRANCHES, DEAD WOOD, AND ROOTS IMMEDIATELY PRIOR TO PLANTING. DO NOT CUT LEADERS OR LEAVE "V" CROTCHES OR DOUBLE LEADERS UNLESS A MULTI–STEM TREE IS SPECIFIED.
9. REMOVE BURLAP, WIRE BASKET, ROPE, TWINE, AND ALL SYNTHETIC MATERIAL FROM THE ROOTS, TRUNK, OR CROWN OF PLANT.
10. REMOVE EXCESS SOIL ABOVE ROOT COLLAR.
11. PLANT TREES AND SHRUBS SO THAT THE ROOT COLLAR IS 2" ABOVE FINISHED GRADE OR SEVERAL INCHES ABOVE GRADE IF PLANT IS INSTALLED IN POOR SOILS.
12. PLANT TREES AND SHRUBS WITH SAME ORIENTATION AS WHEN HARVESTED FROM THE NURSERY OR TO SHOWCASE THE MOST AESTHETIC VIEW.
13. PLANT ALL TREES WITH THREE SLOW RELEASE FERTILIZER PACKETS, SPACED EQUIDISTANT AROUND THE EDGE OF THE ROOT BALL.
14. PLANT ALL SHRUBS WITH ONE SLOW RELEASE FERTILIZER PACKET, PLACED BELOW THE ROOTING SYSTEM.
15. WATER AND TAMP BACKFILL AND ROOTS OF ALL NEWLY SET PLANT MATERIAL SO THE SOIL AND ROOTS ARE THOROUGHLY SOAKED AND AIR POCKETS ARE REMOVED.
16. FOR INDIVIDUAL TREES & SHRUBS PLANTED IN TURF AREAS, PROVIDE CONTINUOUS 3" SOIL SAUCER TO CONTAIN WATER & MULCH (TREES ON SLOPES SHALL BE SAUCERED ON THE DOWNHILL SIDE)
17. INSTALL 3" THICK SHREDDED HARDWOOD BARK MULCH RING 3'–0" DIA. FOR DECIDUOUS TREES AND ALL INDIVIDUAL SHRUBS IN LAWN AREAS, 5'–0" DIA. FOR EVERGREEN TREES. KEEP MULCH 2" AWAY FROM TRUNKS.
18. STAKING – ONLY STAKE EVERGREEN TREES 5'–0" OR GREATER IN HEIGHT OR TREES THAT ARE UNABLE TO REMAIN UPRIGHT AFTER PLANTING. TREES WILL BECOME STRONGER FASTER WHEN THE TOP 2/3 OF THE TREE IS FREE TO SWAY. DO NOT ATTACH WIRE DIRECTLY TO TREES OR THROUGH HOSES – UTILIZE GROMMETED, SYNTHETIC STRAPS AT LEAST 2" WIDE AROUND THE TREE, ATTACH STRAPPING TO STAKE WITH WIRE. STAKE ONLY WHEN NECESSARY. STAKES SHOULD BE DRIVEN DEEPLY INTO THE GROUND TO PREVENT DISLODGING. CHECK AT LEAST EVERY THREE MONTHS FOR BINDING OR OTHER PROBLEMS. STAKES AND TIES SHOULD BE REMOVED SIX MONTHS TO ONE YEAR AFTER PLANTING.
19. REFER TO SPECIFICATIONS 32 93 00 PLANTS AND 32 92 00 TURF AND GRASSES FOR ADDITIONAL INFORMATION.

2 L2.10 LANDSCAPE NOTES
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

# LANDSCAPE CALCULATIONS

## City of Sheboygan Landscaping Requirements

Site Zoning = NR-6 (Neighborhood Residential-6)
Property across the street at the northeast corner of the Union Avenue and S. 11th Street intersection are zoned = NC (Neighborhood Commercial District)
Properties across the street to the north, south, east and west are zoned = NR-6 (Neighborhood Residential-6)

## Building Foundation Landscaping

**Proposed Building Foundation length = 1262 linear feet**
**Existing Building Foundation length = 343 linear feet**

| | Required | Provided |
|---|---|---|
| Placement of Landscaping | Landscaping shall be placed so that at maturity, the plant's drip line is located within ten (10) feet of the building foundation. Such landscaping shall not be located in those areas required for landscaping as street frontages, paved areas, protected green space areas, reforestation areas, or bufferyards. | The landscaping for building foundation is located within ten (10) feet of the building foundation. This landscaping is not located in the areas designated as street frontages, paved areas, protected green space areas, reforestation areas, or bufferyards. |
| Calculation of Landscaping Points for proposed building foundation | | |
| 40 landscaping points per 100 feet of building foundation required. | 40 landscaping points per 100 feet of building foundation required. | More than or equal to 40 landscaping points per 100 ft of building foundation is provided |
| (1262 ft of proposed building foundation/100 lf) x (40 points) = 504.8 landscaping points required | 505 landscape points required | 506 landscape points provided |
| Calculation of Landscaping Points for existing building foundation | | |
| 40 landscaping points per 100 feet of building foundation required. | 40 landscaping points per 100 feet of building foundation required. | More than or equal to 40 landscaping points per 100 ft of building foundation is provided |
| (343 ft of existing building foundation/100 lf) x (40 points) = 137.2 landscaping points required | 138 landscape points required | 138 landscape points provided |

## Street Frontage Landscaping

**Length of street yard along Union Avenue = 360.2 linear feet**
**Length of street yard along S. 10th Street = 676.0 linear feet**
**Length of street yard along Ashland Avenue = 360.0 linear feet**
**Length of street yard along S. 11th Street = 688.8 linear feet**

| | Required | Provided |
|---|---|---|
| Placement of Landscaping | All landscaping used to meet this requirement shall be located within 10 feet of the public right-of-way. | All landscaping used to meet this requirement is located within 10 feet of the public right-of-way. |
| | Landscaping shall not impede vehicle or pedestrian visibility. | Landscaping does not impede vehicle or pedestrian visibility. |
| Selection of Landscaping | Shrubs shall not be used to meet this requirement. A minimum of 50% of all points shall be devoted to climax and/or tall trees and a minimum of 30% of all points shall be devoted to small trees. | A minimum of 50% of all points is devoted to climax and/or tall trees and a minimum of 30% of all points is devoted to small trees. |
| A minimum of 50% of points devoted to climax and/or tall trees | A minimum of 50% of all points shall be devoted to climax and/or tall trees | (570 climax and tall tree points)/(836 total landscape points required) = 68.2% climax and tall trees |
| A minimum of 30% of points devoted to small trees | A minimum of 30% of all points shall be devoted to small trees. | (300 small tree points)/(836 total landscape points required) = 35.9% small trees |
| Shrubs shall not be used to meet this requirement. | Shrubs shall not be used to meet this requirement. | Shrubs are not be used to meet this requirement. |
| Calculation of Landscaping Points | | |
| 40 landscaping points per 100 feet of street frontage required | 40 landscaping points per 100 feet of street frontage required | Equal to or greater than 40 landscaping points per 100 lf of street frontage is provided |
| Union Avenue | | |
| (360.2 total feet of street frontage / 100 feet) x 40 points = 144.1 landscaping points required | 145 Landscaping Points required | 150 Landscaping Points provided |
| S. 10th Street | | |
| (676 total feet of street frontage / 100 feet) x 40 points = 270.4 landscaping points required | 271 Landscaping Points required | 290 Landscaping Points provided |
| Ashland Avenue | | |
| (360 total feet of street frontage / 100 feet) x 40 points = 144.0 landscaping points required | 144 Landscaping Points required | 150 Landscaping Points provided |
| S. 11th Street | | |
| (688.8 total feet of street frontage / 100 feet) x 40 points = 275.5 landscaping points required | 276 Landscaping Points required | 280 Landscaping Points provided |

## Paved Areas - East Parking Lot

**East Parking Lot paved area = 9,954 square feet**
**Parking Stalls = 17 stalls**

| | Required | Provided |
|---|---|---|
| A minimum of 30% of points devoted to climax and/or tall trees | A minimum of 30% of points devoted to climax and/or tall trees | (30 climax and/or tall tree points)/(80 total landscape points required) = 37.5% climax and/or tall trees |
| A minimum of 40% of points devoted to shrubs | A minimum of 40% of points devoted to shrubs | (50 shrub points)/(80 total landscape points) = 62.5% shrubs |
| Calculation of Landscaping Points | | |
| 80 landscaping points per 20 parking stalls -or- per 10,000 sf of pavement area (Whichever yields the greater landscaping requirement. | | |
| (17 total parking stalss provided / 20) x 80 landscaping points = 68 landscaping points required | 68 total landscaping points required in the stall calculation method | N/A - more points required with paved area method (see below cell) |
| (9,954 sf total parking area/10,000 sf) x 80 landscaping points = 79.6 landscaping points | 80 total landscaping points required in the paved area calculation method | 80 landscaping points provided |

## Paved Areas - Northwest Parking Lot

**Northwest Parking Lot paved area = 36,107 square feet**
**Parking Stalls = 95 stalls**

| | Required | Provided |
|---|---|---|
| A minimum of 30% of points devoted to climax and/or tall trees | A minimum of 30% of points devoted to climax and/or tall trees | (225 climax and/or tall tree points)/(380 total landscape points required) = 59.2% climax and/or tall trees |
| A minimum of 40% of points devoted to shrubs | A minimum of 40% of points devoted to shrubs | (155 shrub points)/(380 total landscape points) = 40.7% shrubs |
| Calculation of Landscaping Points | | |
| 80 landscaping points per 20 parking stalls -or- per 10,000 sf of pavement area (Whichever yields the greater landscaping requirement. | | |
| (95 total parking stalss provided / 20) x 80 landscaping points = 380 landscaping points required | 380 total landscaping points required in the stall calculation method | 384 landscaping points provided |
| (36,107 sf total parking area/10,000 sf) x 80 landscaping points = 288.9 landscaping points | 289 total landscaping points required in the paved area calculation method | N/A - more points required with stall calculation method (see above cell) |

## Developed Areas

**Undesignated area = 20,113 square feet**

| | Required | Provided |
|---|---|---|
| Landscaping points (as described in Section 15.603) shall be provided on a prorated basis for every 1,000 square feet of gross floor area | | |
| Calculation of Landscaping Points | | |
| 20 landscaping points shall be provided per every 1,000 sf of gross floor area | | |
| (20,113 sf total parking area/1,000 sf) x 20 landscaping points = 402.3 landscaping points | 403 total landscaping points required | 404 landscaping points provided |

3 L2.10 LANDSCAPE CALCULATIONS
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| DATE | DESCRIPTION |
|---|---|

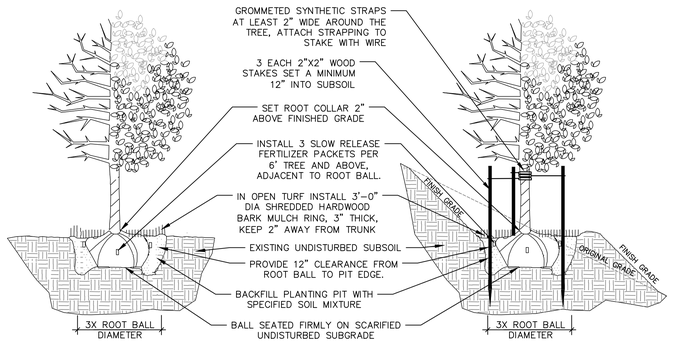
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CITY OF SHEBOYGAN PLAN REVIEW
2/02/2026

Project Number:
3415

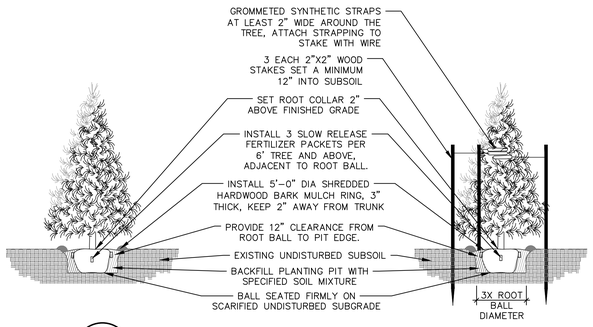
Sheet Title:
**SITE LANDSCAPE DETAILS**

Sheet Number:
L2.10

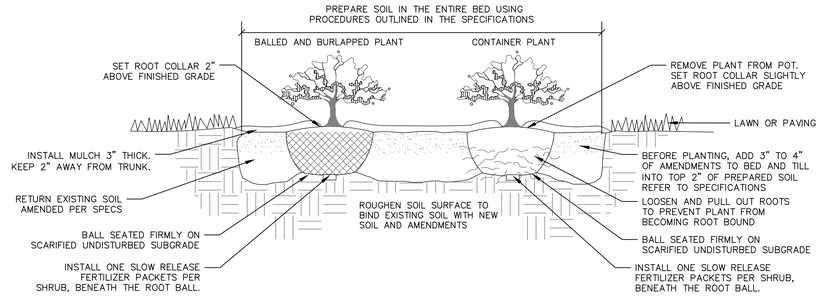
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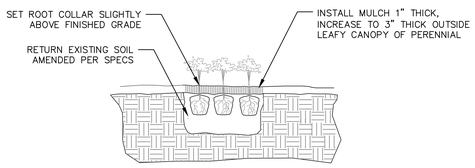

1 L2.11 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE
N.T.S.



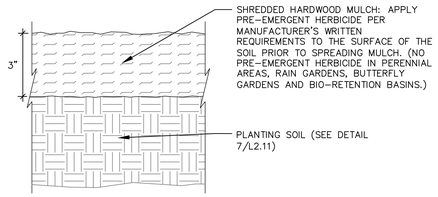

2 L2.11 EVERGREEN TREE PLANTING & STAKING
N.T.S.



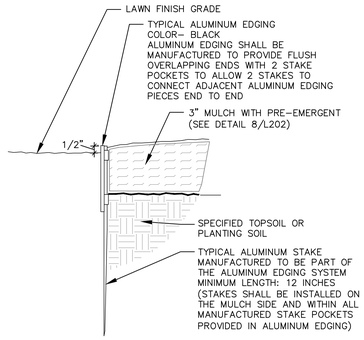

3 L2.11 DECIDUOUS & EVERGREEN SHRUB PLANTING
N.T.S.



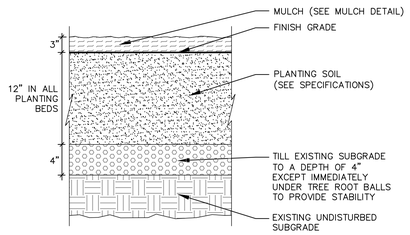

4 L2.11 PERENNIAL PLANTING
N.T.S.




5 L2.11 SHREDDED HARDWOOD MULCH SECTION
N.T.S.




6 L2.11 ALUMINUM EDGING AT PLANTING BED SECTION
N.T.S.




NOTE:
1. PLACE ROOT BALL ON TOP OF COMPACTED SPECIFIED PLANTING SOIL OR EXISTING UNDISTURBED SUBGRADE.

7 L2.11 SOIL FOR PLANTING BED AREAS SECTION
N.T.S.

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Project Title:
Addition & Renovation to:
FARNSWORTH MIDDLE SCHOOL
SHEBOYGAN SCHOOL DISTRICT
1017 UNION AVE.
SHEBOYGAN, WI 53081

REVISIONS:

| | DATE | DESCRIPTION |
|---|---|---|

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Sheet Title:
**SITE LANDSCAPE DETAILS**

Sheet Number:
L2.11

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